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A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4 July 5, 1968 Number 14

OBJECTIVES AND SCOPE

The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind to be established within a national library. It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

For broader coverage of literature on agriculture and related subjects, please consult the Bibliography of Agriculture, a monthly publication of the National Agricultural Library.

FORMAT

The Bulletin is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

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10 ENTOMOLOGY

Systematics

14019-68
A RECORD OF CANOPS FLAVIPES L (DIPT., CONOPIDAE) PARASITIZING VESPULA RUFA (L.).
T S Arnold
Entomol Mon Mag 103(1232-1234):70
Jan 1967 421 EN86
Conops flavipes, Parasitic insects, Vespula rufa.

14020-68
FOUR NEW SPECIES OF MONOJOUBERTIA FROM ONE SPECIES OF BIRD (ANALGOIDEA: PROCTOPHYLLODIDAE).
W T Atyeo
Kans Entomol Soc J 40(4):458-465
Oct 1967 420 K13
Birds, Insect taxonomy, Monojoubertia, Parasitic insects.
Abstract

14021-68
TWO NEW FEATHER MITE GENERA WITH POLYMORPHIC MALES (ANALGOIDEAI PROCTOPHYLLODIDAE).
W T Atyeo
Kans Entomol Soc J 40(4):465-471
Oct 1967 420 K13
Anisopbyllodes, Featbers, Insect taxonomy, Mites, Parasites, Ptyctophyllodes.
Abstract

14022-68
THE FEATHER MITE GENUS LAMINALLOPTES (PROCTOPHYLLODIDAE: ALLOPTINAE).
W T Atyeo P C Peterson
Kans Entomol Soc J 40(4):447-458
Oct 1967 420 K13
Birds, Featbers, Insect taxonomy, Laminalloptes, Mites, Parasites.
Abstract

14023-68
NEMOURIDAE OF ASSAM (PLECOPTERA). (FR)
J Aubert
Scbweiz Entomol Ges Mitt 39(3/4):209-253
15 Apr 1967 420 SW6
Nemouridae.
Includes n. spp. in Protonemura, Ampbinemura, and Nemonra.

14024-68
ANTICIPATED CHANGES IN PHYSICAL AND BIOTIC ECOLOGICAL FACTORS WHICH WILL EFFECT THE PRESENT STATUS OF THE INSECT AND ANIMAL PESTS IN THE DISTRICT OF LAKE NASSER.
M El S Ayynb
Soc Entomol Egypte Bull 49:323-326
1966 420 EG9
Culicidae, Dams, Ecology, Egypt, Insect pests, Wildlife.

14025-68
SIBLING SPECIES IN THE GENUS TETRAMESA (WALKER) (HYM., EURYTOMIDAE).
R Bailey
Entomol Mon Mag 103(1232-1234):45-52
Jan 1967 421 EN86
Eurytomidae, Gall-making insects, Grasses, Tetramesa.

14026-68
SOME OBSERVATIONS ON PREDATION IN AN ANYSTID MITE.
W V Baker
Entomol Mon Mag 103(1232-1234):58-59
Jan 1967 421 EN86
Anystis, Insects, Predaceous mites.

14027-68
HOST DISCRIMINATION IN PSEUDEUCOILA BOCHEI (HYMENOPTERA: CYNIPIDAE).
K Bakker S N Bagcbee W R Van Znet E Meelis
Entomol Exp Appl 10(3):295-311
1967 421 EN895
Cynipidae, Drosopbila melanogaster, Parasitic insects, Pseudeucoila bocbei.
German summary
Abstract

14028-68
AEHA CARTRIDGE-TYPE ASPIRATORS.
W W Barnes J W Southwick
Mosquito News 27(4):521-522
Dec 1967 421 MB5
Culicidae, Insect collecting equipment.

14029-68
A SPECIMEN OF AEDES TRIBAULTI COLLECTED NEAR BELLEVILLE, ONTARIO.
P Belton D E French
Can Entomol 99(12):1336
Dec 1967 421 C16
Aedes tbibaulti.
Abstract

14030-68
THE BLACK FLIES OF JAPAN AND KOREA. (DIPTERA: SIMULIIDAE). QL531.B4.
W C Bentinck
23 P. TOKYO 406TH MEDICAL GENERAL LABORATORY
01 May 1955
Insect taxonomy, Simuliidae.

14031-68
MELICERIA RAFFR AND CYRTOPLECTUS NORM. (COL. PSELAPHIDAE). (FR)
C Besucbet
Scbweiz Entomol Ges Mitt 39(1/2):49-58
15 Sep 1966 420 SW6
Cyrtoplectus, Meliceria.
Includes M. italica, n. sp.

14032-68
A NUMERICAL TAXONOMY OF ORTHOPTEROID INSECTS.
R E Blackitb R M Blackith
Australian J Zool 16(1):111-131 REF
Feb 1968 410 AU73
Dermaptera, Insect taxonomy, Neuroptera, Ortboptera.
Abstract: Two metbods were nsed, pbylogenetic ideas and a strictly phenetic approacb. Methods were used with special problems arising in comparing higher taxa. Cbiefly, Anstralian ortbopteroids were used. A total of 92 cbaracters served as a basis for tbe calculations.

14033-68
ON THE TWO SPECIES OF BRUCHIDIUS (COLEOPTERA: BRUCHIDAE) ESTABLISBED IN NORTH AMERICA.
L J Bottimer
Can Entomol 100(2):139-145 REF
Feb 1968 421 C16
Brucbidius ater, Cytisns scoparins, Host specificity, Insect rearing.

14034-68
AN IMPROVED PORTABLE RESTING STATION FOR ANOPHELES QUADRIMACULATUS SAY.
S G Breeland J W Glasgow
Mosquito News 27(1):5-9 REF
Mar 1967 421 M85
Anopbeles qnadrimaculatns, Insect collecting eqnipment.
Abstract: An improved artificial resting device for Anopbeles mosqnitoes made of clotb and a wooden frame more portable and less expensive tban the red box type is described. In field tests tbey gave consistently bigber counts of A. qnadrimacnlatns than connterpart red boxes wben competitively compared.

14035-68
NEW RECORDS FOR AEDES SPECIES IN MANITOBA.
B A Brnst K S Kalpage
Mosqnito News 27(1):117-118 REF
Mar 1967 421 M85
Aedes, Insect biology.
A. abserratus, A. triseriatns, A. decticns, and A. barri.

14036-68
A NEW SPECIES OF MYRMECOPHILOUS COCCINELLIDAE, WITH NOTES ON OTHER HYPERASPINI (COLEOPTERA).
E A Cbapin
Psycbe 73(4):278-283
Dec 1966 421 P95
Acacia, Coccinellidae, Hyperaspis acantbicola, Insect taxonomy, Myrmecopbilons insects, Pseudomyrmex.

10 14037-68

14037-68
DISTRIBUTION AND PARASITIZATION OF SOME LYGUS SPP IN WESTERN UNITED STATES AND CENTRAL MEXICO.
D W Clancy
J Econ Entomol 61(2):433-445
Apr 1968 421 J822
Braconidae, Leiophron pallipes, Lygus, Parasitism, Zoogeography.

14038-68
TEMPORAL DISSOCIATION AND POPULATION REGULATION IN CERTAIN HESPERIINE BUTTERFLIES.
H K Clench
Ecology 48(6):1000-1006,AUTUMN REF
1967 410 EC7
Butterflies, Demography, Hesperiidae, Insect ecology.

14039-68
NOTE ABOUT THE GENUS EUPTYCHIA (S.L.) (LEP.SATYRIDAE). (FR)
H De Iesse
Lambillionea 66(5/6):34-39
25 Apr 1967 420 N15
Euptychia, Satyridae, Yphthimoides caliginosa.

14040-68
OBSERVATIONS ON THE STRUCTURE OF HOPPER BANDS AND MOVEMENT OF HOPPERS OF THE RED LOCUST (NOMADACRIS SEPTEMFASCIATA SERVILLE).
G J W Dean
Entomol Soc Southern Afr J 30(1):1-17 REF
Jun 1967 420 EN86
Cynodon, Dinitrocresol, Echinochloa, Insect migration, Insect outbreaks, Nomadacris septemfasciata.
Abstract

14041-68
A NEW SPECIES OF ERISTALIS FROM EASTERN SLOVAKIA (DIPTERA, SYRPHIDAE). (GE)
Z Dolezin H Rozkosny
Acta Ent Bohemoslov 64(3):219-223
1967 420 C33
Eristalis stackelbergi, Syrphidae.

14042-68
REVISION OF THE CENTRAL EUROPEAN SPECIES OF THE FAMILY STRATIOMYIDAE (DIPTERA) WITH SPECIAL CONSIDERATION OF THE FAUNA OF CSSR. IV. (GE)
J Dusek H Rozkosny
Acta Ent Bohemoslov 64(2):140-165
1967 420 C33
Diptera, Insect taxonomy, Stratiomyidae.

14043-68
A NEW SPECIES OF SURICATOECUS (MALLOPHAGA: THICHODECTIDAE) FROM THE CONGO.
K C Emerson H D Price
Kans Entomol Soc J 40(4):608-609
Oct 1967 420 K13
Insect taxonomy, Mallophaga, Mongoose, Suricatoecus congoensis.

14044-68
REDESCRIPTION AND CLASSIFICATION OF THE SCALE INSECTS OF THE FAMILY DIASPIDIDAE, ORIGINALLY DESCRIBED BY W. J. HALL FROM EGYPT.
Y M Ezzat S A Afifi
Soc Entomol Egypte Bull 49:367-409 REF
1966 420 EG9
Diaspididae.

14045-68
A TRAP BASED ON VISUAL RESPONSES OF ADULT MOSQUITOES.
R W Hay
Mosquito News 28(1):1-7 REF
Mar 1968 421 M85
Aedes aegypti, Color, Culicidae, Insect behavior, Insect traps.
Abstract: The swarming reaction of adult male Ae. aegypti in close proximity to certain colored objects had been utilized in the design of a battery-driven suction trap that shows considerable promise as an indoor surveillance tool. Adult females are attracted to the trap also, apparently in response to the male swarm.

14046-68
CONTRIBUTION TO THE STUDY OF CURCULIONIDAE FROM GUADELOUPE (COL.). DESCRIPTION OF TWO NEW SPECIES OF APION. (FR)
M Ferrage
Soc Entomol France Bull 72(7/8):255-258
Sep 1967 420 F84B
Apion hustachei, Apion kissingeri, Curculionidae, Insect taxonomy.
Includes key

14047-68
TAXONOMY OF FINAL-INSTAR LARVAE OF THE HYMENOPTEROUS AND DIPTEROUS PARASITES OF ACROBASIS SPP. (LEPIDOPTERA: PYRALIDAE) IN THE OTTAWA REGION.
T Finlayson
Can Entomol 90(12):1233-1271 REF
Dec 1967 421 C16
Acrobasis, Diptera, Host specificity, Hymenoptera, Insect anatomy, Parasitism.
Abstract

14048-68
SOME EFFECTS OF THE BIG-HEADED ANT ON POPULATIONS OF THE PINK SUGARCANE MEALYBUG.
S S Flinker E W Huddleston J W Beardsley
J Econ Entomol 61(2):474-477 REF
Apr 1968 421 J822
Anagyrus saccharicola, Beneficial insects, Insect populations, Parasitism, Pheidole megacephala, Saccharicoccus sacchari.

14049-68
TWO NEW SPECIES OF NOCTUIDS (LEPIDOPTERA, NOCTUIDAE, NOCTUINAE).
J G Franclemont
Entomol Soc Wash Proc 69(2):97-102
Jun 1967 420 W27
Abagrotis alampeta, Anicla cemolia, Insect taxonomy, Noctuidae.

14050-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 61ST CONTRIBUTION. LIST OF ALBANIAN LOCALITIES. (GE)
G Friese
Beitr Entomol 17(3/4):405-434 REF
1967 421 B392
Expeditions, Insects.
English summary.

14051-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 65TH CONTRIBUTION. HYMENOPTERA: SCOLIIDAE. (GE)
G Friese W H Muche
Beitr Entomol 17(3/4):509-516 REF
1967 421 B392
Expeditions, Insect taxonomy, Scoliidae.
English summary.

14052-68
THE SYSTEMATIC STATUS OF SOME GENERA OF THE HELIODINIDAE/ SCHRECKENSTEINIIDAE TOGETHER WITH A REVISION OF THE PALEARCTIC SPECIES OF THE GENUS PANCALIA CURTIS, 1830 (LEPIDOPTERA). (GE)
R Gaedike
Beitr Entomol 17(3/4):363-374
1967 421 B392
Heliodinidae, Insect taxonomy, Pancalia, Schreckensteiniidae.
Includes n. sp.
English and Russian summaries.

14053-68
NOTES ON THE GENUS THECODIPLOSIS KIEFFER IN NORTH AMERICA, AND SOME GENERIC REASSIGNMENTS (DIPTERA: CECIDOMYIIDAE).
H J Gagne
Entomol Soc Wash Proc 69(4):338-339
Dec 1967 420 W27
Cecidomyiidae, Gall-making insects, Insect taxonomy, Thecodiplosis.

14054-68
LIODES (OREOSPHAERULA) RITIDA SEDLICAENSIS SSP. N. FROM CZECHOSLOVAKIA (COLEOPTERA, LIODIDAE). (GE)
J Gottwald
Acta Ent Bohemoslov 64(3):232-234
1967 420 C33
Coleoptera, Liodes.

14055-68
NEW SPECIES OF ARDEICOLA CLAY, 1935 (MALLOPHAGA: ISCHNOCERA).
K P Rajela H K Tandan
Roy Entomol Soc London Proc Ser B Taxonom 36(5-6):71-78
27 Jun 1967 420 L84PB

Ardeicola, Birds, Mallophaga.

14056-68
A SYSTEMATIC REVISION AND BIOLOGICAL REVIEW OF THE CECIDOMYIID PREDATORS (DIPTERA: CECIDOMYIIDAE) ON WORLD COCCOIDEA (HEMIPTERA:HOMOPTERA).
K M Harris
Roy Entomol Soc London Trans 119(13):401-494
23 Jan 1968 420 L84
Cecidomyiidae, Coccoidea, Insect biology, Nipponodiplosis, Predacecus insects, Vincentodiplosis.
Includes n. gen., n. spp.

14057-68
OCCURRENCE OF TOXORHYNCHITES RUTILUS SEPTENTRIONALIS (DYAR AND KNAB) IN INDIANA.
J W Hart
Mosquito News 28(1):118 REF
Mar 1968 421 M85
Culex pipiens, Feeding, Habitats, Insect biology, Predaceous insects, Toxorbynchites rutilus.

14058-68
MODIFICATION OF THE ICE WATER METHOD FOR HARVESTING ANOPHELES AND CULEX PUPAE.
E I Hazard
Mosquito News 27(1):115-116 REF
Mar 1967 421 M85
Culicidae, Insect collecting equipment, Pupae.

14059-68
TEMPERATURE RESPONSES OF THE PERIODICAL "17-YEAR" CICADA, MAGICICADA CASSINI (HOMOPTERA, CICADIDAE).
J E Heath
Amer Midland Natur 77(1):64-76 REF
Jan 1967 410 M58
Cicadidae, Flight, Insect behavior, Magicicada, Ovulation, Sex behavior, Stridulation, Temperature.
Abstract: Periodical cicadas are basking animals and reach body temperatures exceeding air temperature. They possess behavioral regulatory mechanisms to prevent the body temperature from exceeding about 32 C. They are unable to fly below 20 C. Some activities of cicadas are temperature dependent, notably flight of males, singing and synchronized chorusing. Other activities are relatively more independent, especially flight of females, copulation and oviposition.

14060-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 64TH CONTRIBUTION. HYMENOPTERA: TENTHREDINOIDEA. (GE)
W Hellen
Beitr Entomol 17(3/4):477-508 REF
1967 421 B392
Expeditions, Tenthredinoidea.
English summary

14061-68
TACHINIDAE COLLECTIONS FROM CENTRAL SWISS JURA TENT TRAPS. (GE
B Herting
Schweiz Entomol Ges Mitt 39(3/4):191-198
15 Apr 1967 420 SW6
Insect traps, Tachinidae.

14062-68
SEX RATIOS OF PLATYPUS (COLEOPTERA: PLATYPODIDAE).
L A Petrick
Entomol Soc Wash Proc 69(3):297
Sep 1967 420 W27
Forest insects, Platypus, Sex.

14063-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 71ST CONTRIBUTION. COLEOPTERA: CERAMBYCIDAE. (GE)
L Heyrovsky
Beitr Entomol 17(3/4):573-621 REF
1967 421 B392
Cerambycidae, Expeditions.
English summary.

14064-68
DANISH LEPIDOPTERA. QL555 .D4B6. (DA)
S Hoffmeyer
270 P. UNIVERSITETSFORLAGET, AARHUS
1960
Insect taxonomy, Lepidoptera.

14065-68
THE WATER MITES PARASITIC ON THE DAMSELFLY, CERCION HIEROGLYPHICUM BRAUER. I. SYSTEMATICS AND LIFE HISTORY.
T Imamura R Mitchell
Annot Zool Jap 40(1):28-36 REF
Mar 1967 410 AN79
Arrenurus, Biology, Cercion hieroglyphicum, Hydrachnellae, Taxonomy.
Abstract: Arrenurus mitoensis n. sp. is described and the larvae of that species and A. agrionicolus are discussed. Observations of parasitized hosts show that the larvae are active from May to November and thus there must be two or three life cycles completed per year. At the time of ecdysis of the damselfly host.A. agrionicolus attach to the ventro-lateral membranes of the host abdomen and A. mitoensis attaches on the venter near the leg bases. The latter species will also attack mature damselflies as they rest or oviposit on floating vegetation. No other species of Arrenurus is known to attack hosts after ecdysis.

14066-68
DIFFERENCES IN INSECT ABUNDANCE AND DIVERSITY BETWEEN WETTER AND DRIER SITES DURING A TROPICAL DRY SEASON.
D B Janzen T W Schoener
Ecology 49(1):96-110 REF WINTER
1968 410 EC7
Forest insects, Habitats, Insect ecology, Insect populations, Metamorphosis, Precipitation, Predatory animals, Temperature.

14067-68
A REVISION OF THE PAPUAN PARADOXOSOMATIDAE (DIPLOPODA, POLYDESMIDA) IN THE MUSEO CIVICO DI STORIA NATURALE AT GENOA.
C A W Jeekel
Tijdschr Entomol 110(11):343-379
1967 421 T21
Paradoxosomatidae.
Abstract

14068-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 69TH CONTRIBUTION. COLEOPTERA: MELOIDAE. (GE)
Z Kaszab
Beitr Entomol 17(3/4):537-546
1967 421 B392
Expeditions, Meloidae.
English summary.

14069-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 70TH CONTRIBUTION. COLEOPTERA: TENEBRIONIDAE. (GE)
Z Kaszab
Beitr Entomol 17(3/4):547-571
1967 421 B392
Expeditions, Tenebrionidae.
English and Russian summaries.

14070-68
AN UNDESCRIBED SPECIES OF PHYTOSEIUS FROM CALIFORNIA (ACARINA: PHYTOSEIIDAE).
C E Kennett
Pan-pacific Entomol 43(2):137-139
Apr 1967 421 P193
Blackberries, Insect taxonomy, Pytoseius californicus.

14071-68
ON THE GENUS RHIPIBRUCHUS BRIDWELL, WITH DESCRIPTIONS OF A NEW SPECIES AND A CLOSELY RELATED NEW GENUS (COLEOPTERA: BRUCHIDAE: BRUCHINAE).
J M Kingsolver
Entomol Soc Wash Proc 69(4):318-327
Dec 1967 420 W27
Bruchidae, Insect taxonomy, Pectinibruchus longiscutus, Rhipibruchus.

14072-68
NEW FLEAS FROM MADAGASCAR, PARACTENOPSYLLUS RANDRIANASOLOI N SP, P ALRIGNACI N SP AND DINOPSYLLUS TSARATANANAE N SP. (SIPHONAPTERA). (FR)
J M Klein
Soc Entomol France Bull 72(9/10):300-310
Nov 1967 420 F84R
Dinopsyllus tsaratananae, Insect taxonomy, Malagasay Republic, Paractenopsyllus albignaci, Paractenopsyllus randrianasoloi, Siphonaptera.

10 14073-68

14073-68
BOOPHILUS KOHLSI BOOGSTRAAL AND KAISER 1960 (ACARINA: IXODIDAE). LIFE CYCLE AND MORPHOLOGY OF LARVA. (GE)
G Kohler G Hoffmann
Z Parasitenk 29(1):36-39
1967 442.8 Z33P
Biology, Boophilus kohlsi, Ixodidae, Larvae, Morphology.
English and German abstracts
Abstract

14074-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 62ND CONTRIBUTION. BIBLIOGRAPHY OF THE ALBANIAN ENTOMOLOGICAL RESEARCH. (GE)
E Konigsmann
Beitr Entomol 17(3/4):435-457
1967 421 B392
Bibliography, Entomology, Expeditions.
English summary.

14075-68
STENOBOTHRUS (STENOBOTHRODES) COTTICUS NOV. SPEC., A NEW GRASSHOPPER FROM THE FRENCH ALPS (ORTHOPTERA, ACRIDIDAE).
G Kruseman C A W Jeekel
Entomol Ber 27(1):1-7
01 Jan 1967 420 N38E
Stenobothrus cotticus.

14076-68
SARCOPTIC MANGE (SARCOPTES TAPIRI NOV. SPEC.) OF TAPIR (TAPIRUS TERRESTRIS L.). (GE)
E Kutzer W Grunberg
Z Parasitenk 29(1):46-60
1967 442.8 Z33P
Mange, Sarcoptes tapiri, Taxonomy, Wildlife.
English and German abstracts
Abstract

14077-68
INTERESTING CATCHES OF HYMENOPTERA-ACULEATA, CHIEFLY FROM SOUTHERN LIMBURG. (DU)
V Lefeber
Entomol Ber 26(11):209-211
01 Nov 1966 420 N38E
Aculeata.
English summary.

14078-68
SPECIES NEW FOR THE BELGIAN FAUNA. (FR)
A Legrain
Lambillionea 66(5/6):33-34. (CONT.)
25 Apr 1967 420 N15
Sterra ochrata.

14079-68
CATALOG OF NEDERLANDS MACROLEPIDOPTERA. 14TH SUPPLEMENT. (DU)
H J Lempke
Tijdschr Entomol 110(10):223-342
1967 421 T21
Geometridae, Lepidoptera, Macrolepidoptera.
English summary.
Abstract

14080-68
MIGRATING LEPIDOPTERA IN 1965. (DU)
H J Lempke
Entomol Ber 26(11):195-203
01 Nov 1966 420 N38E
Insect migration, Lepidoptera.
English summary.

14081-68
BIONOMICS OF CERCERIS SIMPLEX GRAPHICA AT LAKE TEXOMA (HYMENOPTERA: SPHECIDAE: PHILANTHINAE).
C S Lin
Entomol Soc Wash Proc 69(4):312-317 REF
Dec 1967 420 W27
Cerceris simplex, Insect biology, Insect ecology, Predaceous insects, Sphecidae.
Abstract

14082-68
NEW AND LITTLE KNOWN PALEARCTIC SPECIES OF THE GENUS SCAPHOSOMA LEACH (COL., SCAPHIDIIDAE). 18. CONTRIBUTION TO THE KNOWLEDGE OF THE SCAPHIDIIDAE. (GE)
I Lohl
Acta Ent Bohemoslov 64(210015-111
1967 420 C33
Scaphidiidae, Scaphosoma.

Includes S. inopinatum n. sp.

14083-68
A COLLAPSIBLE, PORTABLE VEHICLE-MOUNTED INSECT TRAP.
V A Loy C S Barnhart A A Therrien
Mosquito News 28(1):84-87 REF
Mar 1968 421 M85
Collecting equipment, Insect traps, Vehicles.

14084-68
THE LARVA AND PUPA OF DEMEIJEREA RUFIPES (L.) (DIPT., CHRONOMIDAE).
P S Maitland
Entomol Mon Mag 103(1232-1234):53-57 REF
Jan 1967 421 EN86
Chironomidae, Demeijerea rufipes, Insect taxonomy, Larvae, Pupae.

14085-68
PHOTOACTIC RESPONSE OF FIRST-INSTAR LARVAE OF THE PINK BOLLWORM TO LIGHT OF DIFFERENT WAVELENGTHS.
C L Mangum W O Ridgway
J Econ Entomol 61(2):396-398
Apr 1968 421 J822
Infrared rays, Larvae, Pectinophora gossypiella, Phototropism, Ultraviolet rays.
Abstract

14086-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 63RD CONTRIBUTION. DIPTERA: LIMONIIDAE. (GE)
H Mannheims
Beitr Entomol 17(3/4):459-476
1967 421 B392
Expeditions, Gonomyia friesi, Insect taxonomy, Limoniidae.
Includes key and a n. sp.
English summary.

14087-68
THREE SPECIES OF NOCTUIDAE NEW FOR CSSR (LEPIDOPTERA). (CZ)
J Marek J Stary
Acta Ent Bohemoslov 64(3):238-239
1967 420 C33
Lepidoptera, Noctuidae, Zoogeography.
German summary.
Caradrina terrea, C. gilva, and Calophasia platyptera.

14088-68
CONTRIBUTIONS TO THE KNOWLEDGE OF THE LITHOBIIDES (CHILOPODA--LITHOBIIDAE) OF CROATIA (YUGOSLAVIA). (FR)
Z Matic M Teodoreanu
Biol Glas 19(1-2):1-10 REF
1966 510 Z1B
Chilopoda, Taxonomy.
Abstract in french and slovenian.

14089-68
MORPHOLOGY OF THE NERVOUS SYSTEM OF THE NOCTUID LARVAE PRODENIA LITURA FABR AND TRICHOPLUSIA NI HUBNER.
L M L Mathur
Indian J Entomol 29(1):25-33 REF
Mar 1967 420 IN23
Caterpillars, Insect morphology, Nervous system, Prodenia litura, Trichoplusia ni.
Abstract

14090-68
CONTRIBUTIONS TO THE KNOWLEDGE OF THE SCOLOPENDROMORPHIDAE (SCOLOPENDROMORPHA, CHILOPODA) OF CROATIA. (FR)
Z Matic
Biol Glas 19:(1-2):19-26 REF
1966 510 Z1B
Chilopoda, Scolopendromorphidae, Taxonomy.

14091-68
THE DISCOVERY OF LISTROPHORUS LEUCKARTI PAGENSTECHER ON MICROTUS PENNSYLVANICUS PENNSYLVANICUS FROM NORTH AMERICA (ACARINA: LISTROPHORIDAE).
H McDaniel J P Shoemaker S J Joy
Entomol Soc Wash Proc 69(4):340-343
Dec 1967 420 W27
Listrophorus leuckarti, Mites, Rodents, Taxonomy.

14092-68
DESCRIPTION OF A NEW GENUS AND SPECIES OF TRIMENOPONIDAE FROM PANAMA (MALLOPHAGA).
E Mendez
Entomol Soc Wash Proc 69(3):287-291,MAP

Sep 1967 420 W27
Hoplomycophilus nativus, Insect taxonomy, Mallophaga, Rats, Trimenoponidae.

14093-68
A ZOO FOR INSECTS? SCIENTIST'S SUGGESTION.
R I Metcalf
Aerial Appl 5(4):9
Apr 1967 333.8 AE8
Insects, Wildlife conservation, Zoological gardens.

14094-68
POLYHEDRON SIZE AS TAXONOMIC CRITERION FOR CYTOPLASMIC-POLYHEDROSIS VIRUS.
J E Milstead
J Invertebrate Pathol 9(3):446-447
Sep 1967 421 J826
Insect diseases, Polyhedroses, Taxonomy.

14095-68
DIFFERENT INFECTION RESPONSE OF SILKWORM LARVAE TO THE LOCALITY OF CYTOPLASMIC-POLYHEDROSIS VIRUS INJECTION.
S Miyajima S Kawase
J Invertebrate Pathol 9(3):441-442
Sep 1967 421 J826
Bombyx mori, Caterpillars, Insect diseases, Polyhedroses.

14096-68
SOME ISOCOPTERA FROM PLUMAGE OF BIRDS.
E L Mockford
Entomol Soc Wash Proc 69(4):307-309
Dec 1967 420 W27
Birds, Feathers, Isocoptera.

14097-68
DESCRIPTION OF HAEMATOPOTA SCUTELLATA TOGETHER WITH REMARKS ABOUT THE GENUS HAEMATOPOTA MEIG. IN CZECHOSLOVAKIA (DIPTERA, TABANIDAE). (GE)
J Moucha M Chvala
Acta Ent Bohemoslov 64(3):224-231
1967 420 C33
Haematopota, Tabanidae.

14098-68
PRELIMINARY TAXONOMICAL STUDY OF THE FEMALES OF SOME SPECIES OF THE GENUS ANDRENA OCCURRING IN EGYPT (HYMENOPTERA: APOIDEA-ANDRENIDAE).
M A Moustafa M M Ibrahim
Soc Entomol Egypte Bull 49:123-131
1966 420 EG9
Andrena.

14099-68
ECOLOGICAL STUDIES ON THE RESTING STAGE OF THE PINK BOLLWORM IN EGYPT (LEPIDOPTERA:GELECHIIDAE).
El S A Nasr
Soc Entomol Egypte Bull 49:75-78
1966 420 EG9
Insect ecology, Mortality, Pectinophora gossypiella, Soil moisture, Temperature.

14100-68
CALISCELIS BONELLII (LATREILLE), A EUROPEAN GENUS OF ISSIDAE NEW TO THE UNITED STATES (HOMOPTERA: FULGOROIDEA).
L E O'Brien
Pan-Pacific Entomol 43(2):130-133
Apr 1967 421 P193
Caliscelis bonellii, Insect biology, Insect taxonomy, Zoogeography.

14101-68
TAXONOMY AND DISTRIBUTION OF EUROPEAN AND NEAR EASTERN SPECIES OF THE TABANUS BOVINUS GROUP (DIPTERA, TABANIDAE). (GE)
N G Olsufjev J Moucha M Cavala
Acta Ent Bohemoslov 64(4):303-313
1967 420 C33
Tabanus.
Russian summary.
include n. sp. and n. ssp.

14102-68
MACROLEPIDOPTERA IN CENTRAL LIMBURG IN 1965. (DU)
C Ottenheijm
Entomol Ber 26(11):211-212
01 Nov 1966 420 N38R
Lepidoptera.
English summary.

14103-68
MARKING CULEX PIPIENS LINN. LARVAE WITH VITAL DYES FOR LARVAL ECOLOGICAL STUDIES.
T M Peters R I Chevone
Mosquito News 28(1):24-28 REF
Mar 1968 421 M85
Culex pipiens, Dyes, Insect ecology, Larvae.

14104-68
A PORTABLE MOSQUITO TRAP FOR USE WITH A BANTAM FOWL.
J S Pillai F N MacNamara
Mosquito News 28(1):87-90 REF
Mar 1968 421 M85
Chickens, Culicidae, Insect collecting equipment, Insect traps.

14105-68
THE IDENTITY OF ANTHOMYIA MELANIA DUFOUR, 1839 (DIPTERA: FANNIIDAE).
A C Pont
Beitr Entomol 17(3/4):325-328
1967 421 B392
Fannia melania, Insect taxonomy.

14106-68
A NEW GENUS OF THE TRACHYSPHYRUS GROUP FROM SOUTHERN BRAZIL (HYMENOPTERA, ICHNEUMONIDAE).
C C Porter
Psyche 74(3):218-223
Sep 1967 421 P95
Ichneumonidae, Insect taxonomy.

14107-68
A NEW BORSE-FLY OF THE GENUS CHRYSOPS (DIPTERA: TABANIDAE) FROM EAST AFRICA.
G Pringle
Roy Entomol Soc London Proc Ser B Taxonom 36(5-6):69-70
27 Jun 1967 420 L84PR
Chrysops hubbardi, Tabanidae.

14108-68
DESCRIPTIVE NOTES ON ORNITHODOROS TICKS FROM GULL NESTS ON THE FARALLON ISLANDS AND ISOLATION OF A VARIANT OF RUGHES VIRUS.
F J Radovsky D Stiller R N Johnson C M Clifford
J Parasitol 53(4):890-892
Aug 1967 44R.R JR24
Birds, Gulls, Insect taxonomy, Ornithodoros, Viruses.

14109-68
A NEW SPECIES OF PLEOTRICHOPHORUS FROM BRITISH COLUMBIA (HOMOPTERA: APHIDIDAE).
W R Richards
Can Entomol 100(2):195-197
Feb 1968 421 C16
Aphididae, Insect morphology, Pleotrichophorus.
Abstract

14110-68
TWO NEW EREMAPODITES FROM CAMEROON, APPERTAINING TO THE OEDIPODIUS GRAHAM 1909 GROUP (DIPT. CULCIDAE). (FR)
A Rickenbach L Ferrara J P Boufan
Soc Entomol France Bull 72(9/10):297-300
Nov 1967 420 F84B
Culicidae, Eremapodites caillardi, Eremapodites salauni, Insect taxonomy.

14111-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 6RTH CONTRIBUTION. HYMENOPTERA: APIDAE. III. (GENUS NOMADA SCOPOLI). (GE)
M Schwarz
Beitr Entomol 17(3/4):529-535
1967 421 B392
Expeditions, Insect taxonomy, Nomada, Nomada lucidula.
English summary.

14112-68
A SURVEY OF THE INSECT FAUNA IN CERTAIN AREAS OF THE NUBIAN REGION IN U.A.R.
F Shalaby M M Ibraaim M Rafez
Soc Entomol Egypte Bull 49:201-205
1966 420 EG9
Insects, Surveys, Zoogeography.

14113-68
OCCURRENCE OF AEDES ABSERRATUS (FELT AND YOUNG) AND CULISETA MORSITANS (THEOBALD) IN INDIANA.
R E Siverly
Mosquito News 27(1):116 REF

10 14114-68

Mar 1967 421 B85
Aedes atserratus, Culiseta morsitans, Insect ecology, Larvae.

14114-68
BIONOMICS OF GHOTEA CALIFORNICA CHESSON, WITH A DESCRIPTION OF THE LARVA AND PUPA.
C N Slobodchikoff
Pan-pacific Entomol 43(2):161-168
Apr 1967 421 P193
Grotea californica, Ichneumonidae, Insect ecology, Insect taxonomy, Larvae, Pupae.

14115-68
THE CZECHOSLOVAKIAN SPECIES OF THE GENUS ANCYROPHORUS KRAATZ (COL., STAPH.). 76. CONTRIBUTION TO THE KNOWLEDGE OF THE STAPHYLINIDAE. (GE)
A Smetana
Acta Ent Bohemoslov 64(5):383-391
1967 420 C33
Ancyrophorus, Insect taxonomy, Staphylinidae.
Includes A. tatricus and A. rivularis, n. spp., key.

14116-68
UOLICHOMOTES MAVEI, A NEW GENUS AND NEW SPECIES OF PYEMOTID MITE (ACARINA: PYEMOTIDAE).
H L Smiley
Entomol Soc Wash Proc 69(4):334-337
Dec 1967 420 W27
Uolichomotes mavei, Insect taxonomy, Mites, Pyemotidae.

14117-68
THE BIOLOGY AND TAXONOMY OF THE GENUS STYLOGASTER MACQUART, 1835 (DIPTERA: CONOPIDAE, STYLOGASTERINAE) IN THE ETHIOPIAN AND MALAGASY REGIONS.
K G V Smith
Roy Entomol Soc London Trans 119(2):47-69 REF
27 Jun 1967 420 L84
Stylogaster.

14118-68
A LIST OF MISSOURI MOSQUITOES.
L W Smith & B Enns
Mosquito News 28(1):50 REF
Mar 1968 421 M85
Culicidae, Missouri.

14119-68
STRUCTURE OF THE LABELLAR CHEMORECEPTORS OF THE HOUSE FLY, MUSCA DOMESTICA VICINA (L.) (DIPTERA: MUSCIDAE).
S A Soliman
Soc Entomol Egypte Bull 49:233-241 REF
1966 420 E69
Chemoreceptors, Insect anatomy, Mouth, Musca domestica.

14120-68
INCIDENTAL CAPTURE OF VERTEBRATE WILDLIFE IN BLACKLIGHT INSECT TRAPS.
P A Stewart E L Bart
Amer Midland Natur 78(1):235-240 REF
Jul 1967 410 M58
Bats, Birds, Fluorescent lamps, Frogs, Insect traps, Light traps, Vertebrates, Wildlife conservation.
Abstract: Fluorescent blacklight traps, a promising method for aiding in control of some insect pests, caused limited mortality of wildlife when a study was made in North Carolina and Virginia of their effectiveness for controlling tobacco insects. This loss of wildlife might be reduced because traps are customarily placed near human homes to allow easy access to electric power, and thus home occupants can easily give the traps regular attention. Under such circumstances, loss of birds should be negligible. Because people generally have little interest in conserving bats, the limited loss of bats cannot readily be controlled. Bat mortality can be restricted by delaying operation of the traps until after 1 June. Capture of the tree frogs appeared to be fortuitous event.

14121-68
A NEW SUBGENUS FOR LEUCOPIS LUTEICORNIS MALLOCH, A PREDATOR ON MEALYBUGS IN INDIA (DIPTERA: CHAMAEMYIIDAE).
G C Steyskal
Entomol Soc Wash Proc 69(3):275-276
Sep 1967 420 W27
Leucopis (Indioleucopis), Predaceous insects, Pseudococcidae.

14122-68
THREE SPECIES OF OPILIONES FROM NEPAL.
S Suzuki
Annot Zool Jap 40(2):115-122 REF
Jun 1967 410 AN79

Phalangida, Taxonomy.
Abstract: The present paper deals with the taxonomy of 3 opilionids belonging to the subfam. Gagrellinae of the fam. Leiobunnidae, Eupnoi from Nepal, including 2 new species, Verpulus kanoi n. sp. and Adungrella atrorubra n. sp.

14123-68
NEW PLANT LOUSE SPECIES (HOMOPTERA: APHIDIDAE) FROM HUNGARY. (GE)
H Szelegiewicz
Acta Zool (Budapest) 13(3-4):433-444
1967 410 AC85
Aphididae, Insect taxonomy, Semiaphis horvathi.

14124-68
THE ECOLOGY OF COLD HARDINESS IN DIFFERENT POPULATIONS OF THE BLACK CURRANT GALL MITE, CECIDOPHYOPSIS RIBIS.
G Taksdal
Entomol Exp Appl 10(3):377-386
1967 421 EN895
Cecidophyes ribis, Cold, Currants, Insect ecology, Mortality, Ovulation, Zoogeography.
German summary
Abstract

14125-68
STUDIES ON THE MORPHOLOGY AND RELATIONSHIPS OF MALE APICOMORPHA AND OPISTHOSCELIS (HEMIPTERA: COCCOIDEA).
J G Theron
Australian J Zool 16(1):87-99 REF
Feb 1968 410 AU73
Apicomorpha, Coccoidea, Insect morphology, Opisthoscelis.
Abstract: The males of these genera differ in structure of their abdomens. Both belong to the lecanoid group of the coccoidea. They show some affinity with eriococcidae, especially in structure of genitalia.

14126-68
THREE NEW SPECIES OF TETRANYCHOID MITES (ACARINA: TETRANYCRIDAE AND TENUIPALPIDAE) FROM MISSOURI.
S E Thewke
Kans Entomol Soc J 40(4):583-595
Oct 1967 420 K13
Brevipalpus, Insect taxonomy, Petrobia petiolaris, Tenuipalpidae, Tetranychidae.
Abstract

14127-68
SOYBEAN CYST NEMATODE. PROPOSED QUARANTINE IN INDIANA, FLORIDA, AND LOUISIANA.
Fed Regist 33(58):4927-4928
23 Mar 1968 L1.451
Agricultural products, Heterodera glycines, Interstate commerce, Quarantine, Soils, Soybeans.

14128-68
JAPANESE BEETLE. PROPOSED QUARANTINE IN ALABAMA AND CERTAIN OTHER STATES.
Fed Regist 33(58):4927
23 Mar 1968 L1.451
Composts, Interstate commerce, Popillia japonica, Quarantine, Roots, Soils.

14129-68
GYPSY MOTH AND BROWN-TAIL MOTH. PROPOSED QUARANTINE IN PENNSYLVANIA.
Fed Regist 33(58):4926-4927
23 Mar 1968 L1.451
Interstate commerce, Nygmia phaeorrhoea, Porthetria dispar, Quarantine, Shrubs, Timber, Trees.

14130-68
CEREAL LEAF BEETLE. PROPOSED QUARANTINE IN ILLINOIS AND CERTAIN OTHER STATES.
Fed Regist 33(58):4926
23 Mar 1968 L1.451
Corn, Grain, Grasses, Interstate commerce, Oulema melanopa, Quarantine.

14131-68
ON THE THERAPHOSID SPIDER, CHILOBRACHYS ANDERSONI, FROM THAILAND. (JA)
T Uyemura
Acta Arachnologica 20(2):37-45 REF
20 Mar 1967 434.8 AC8
Anatomy, Chilobrachys, Spiders, Stridulation.
English abstract.
Abstract: The spiders were Chilobrachys andersoni, subfamily Selenocosminae; description and habits are included.

14132-68
ADDITIONAL DATA ON SOME GENERA AND SPECIES OF ACRIDIDAE (ORTHOPTERA, ACRIDOIDEA) FROM THE INDO-MALAYAN REGION.
E Willemse
Tijdschr Entomol 110(12):381-397 REF
1967 421 T21
Acrididae.
Abstract

14133-68
ADDITIONS TO THE LIST OF AEDES SPECIES IN PENNSYLVANIA.
W Wills V McElhattan
Mosquito News 28(1):108-109 REF
Mar 1968 421 M85
Aedes, Culicidae, Pennsylvania, Zoogeography.

14134-68
NEW RECORDS AND A NEW SPECIES OF MESONYSSUS (MESOSTIGMATA: RHINONYSSIDAE) FROM PARROTS (PSITTACIFORMES: PSITTACIDAE).
N Wilson
J Parasitol 54(2):395-401
Apr 1968 448.8 J824
Mesonyssus, Mesonyssus chalcopsittae, Parrots, Taxonomy.

14135-68
IXODES DENDROLAGI (METASTIGMATA, IXODIDAE), A NEW SPECIES OF TICK FROM TREE KANGAROOS (MARSUPIALIA, MACROPODIDAE) IN NEW GUINEA.
N Wilson
J Parasitol 53(4):847-851
Aug 1967 448.8 J824
Insect taxonomy, Ixodes dendrolagi, Ixodidae, Kangaroos, Wildlife.
Abstract

14136-68
RESULTS OF THE ALBANIAN EXPEDITION 1961 OF THE DEUTSCHES ENTOMOLOGISCHES INSTITUT. 67TH CONTRIBUTION. HYMENOPTERA: POMPILIDAE AND CEROPALIDAE. (GE)
H Wolf
Beitr Entomol 17(3/4):521-527
1967 421 E392
Ceropalidae, Expeditions, Pompilidae.
English summary.

14137-68
WESTERN MEDITERRANEAN SPECIES OF THE GENUS ANOSPILUS HAUPT 1929 (HYM. POMPILIDAE). (GE)
H Wolf
Schweiz Entomol Ges Mitt 39(1/2):1-32
15 Sep 1966 420 SW6
Anospilus.
Includes Meganospilus, Lanoganospilus, and Remianospilus, n. subgen., as well as n. spp. and n. ssp.; keys.

14138-68
NEW RECORDS OF TWO CURCULIONID BEETLES IN NORTH CAROLINA.
D I Wray
Entomol News (Philadelphia) 78(9):226-227
Nov 1967 421 EN88
Curculionidae, Gymnetron antirrhini, Rylobius pinicola.

14139-68
THREE NEW SPIDERS (ARGIOPE, ROETHUS AND CISPIUS) FROM JAPAN. (JA)
T Yaginuma
Acta Arachnologica 20(2):50-64 REF
20 Mar 1967 434.8 AC8
Morphology, Spiders, Taxonomy.
English and Japanese abstracts.

14140-68
EUTOGENES PUNCTATA N SP (ACARINA: CHEYLETIDAE).
M A Zaher Z F Soliman
Soc Entomol Egypte Bull 49:65-66
1966 420 EG9
Eutogenes punctata, Phoenix dactylifera.

14141-68
OLIGONYCHUS VITIS N. SP. (ACARINA: TETRANYCHIDAE).
M A Zaher R K Shehata
Soc Entomol Egypte Bull 49:67-69
1966 420 EG9
Grapes, Oligonychus vitis.

Physiology and Biochemistry

14142-68
MOSQUITOMEN TALK EQUIPMENT, METHODS, AND PROBLEMS AT NEW ORLEANS SESSION.
Pest Contr 36(5):56-58,60,62-63
May 1968 449.8 EX8
Aerial spraying, Culicidae, Helicopters, Insect control.

14143-68
HONEY BEE VISIT NUMBERS AND WATERMELON POLLINATION.
W C Adlerz
J Econ Entomol 59(1):28-30
Feb 1966 421 J822
Apis mellifera, Watermelon.

14144-68
BIOLOGY AND ECOLOGY OF TICKS (IXODOIDEA) FROM THE IVORY COAST. (FR)
A Aeschlimann
Acta Trop 24(4):281-405 REF
1967 475 AC8
Insect ecology, Ixodoidea, Parasitism.
English and German summaries
Abstract

14145-68
FEEDING BY RETICULITERMES SPP ON RADIATION-PROCESSED WOOD-PLASTIC COMBINATIONS.
C E Affeltranger
J Econ Entomol 61(2):398-401
Apr 1968 421 J822
Feeding, Methacrylate, Methacrylic acid, Modified wood, Reticulitermes flavipes.
Abstract

14146-68
THE EVOLUTION OF GENITALIA AND MATING BEHAVIOR IN CRICKETS (GRYLLIDAE) AND OTHER ORTHOPTERA.
R D Alexander D Otte
Mich Univ Mus Zool Misc Publ 133,62 P. REF
17 Nov 1967 410.9 M58M
Gryllidae, Insect evolution, Orthoptera, Reproductive organs, Sex behavior.

14147-68
INDIVIDUALLY HUMIDIFIED CLOSED PLASTIC CAGES FOR REARING ANOPHELINE MOSQUITOES.
N E Alger
Mosquito News 28(1):121-122
Mar 1968 421 MB5
Anopheles, Humidity, Insect cages, Insect rearing equipment.

14148-68
PROCEDURE USED TO RECOVER A SEX ATTRACTANT FOR THE MALE TOBACCO HORNWORM.
N Allen W S Kinard M Jacobson
J Econ Entomol 55(3):347-351
Jun 1962 421 J822
Insect collecting equipment, Larvae, Manduca quinquemaculata, Sex attractants.

14149-68
EFFECT OF DESICCATION ON THE LIGHT REACTIONS OF CARPOPHILUS DIMIDIATUS AND TRIBOLIUM CASTANEUM.
T G Amos F L Waterhouse
Entomol Exp Appl 10(3):329-336
1967 421 EN895
Carpophilus dimidiatus, Drying, Humidity, Light, Tribolium castaneum.
French summary
Abstract

14150-68
EFFECTS ON THREE SPECIES OF GRAIN APHIDS (HOMOPTERA: APHIDIDAE) REARED ON WHEAT, OATS OR BARLEY AND TRANSFERRED AS ADULTS TO WHEAT, OATS OR BARLEY.
J U Apablaza A G Robinson
Entomol Exp Appl 10(3):358-362
1967 421 EN895
Barley, Grain, Insect rearing, Macrosiphum avenae, Oats,

10 14151-68

Rhopalosiphum maidis, Schizaphis graminum, Wheat.
French summary
Abstract

14151-68
ACARICIDAL AGENTS. PATENT 3,378,437.
H Arndt W Steinhausen
Us Patent Office Offic Gaz 849(3):782
16 Apr 1968 156.65 CP2
Acaricides, Patents, Plant pest control, Toluidine compounds.

14152-68
STEMPELLIA MAGNA (KULG) (NEMATIDAE: MICROSPORIDIA) IN CULEX RESTUANS THEOBALD FROM VIRGINIA.
D L Bailey W A Barnes R W Dewey
Mosquito News 27(1):111-114 REF
Mar 1967 421 M85
Culex restuans, Insect diseases, Larvae, Nematidae, Stempellia magna.

14153-68
POSSIBLE MIMICRY BETWEEN CERTAIN CARABIDAE AND CHRYSOMELIDAE.
B U Balsbaugh
Coleopt Bull 21(4):139-140
Dec 1967 421 C674
Carabidae, Chrysomelidae, Mimicry.

14154-68
REPRODUCTIVE CAPACITY OF TWO STRAINS OF CRYPTOLESTES TURCICUS (COLEOPTERA: CUCUJIDAE).
F S Barker J A Johnston
Can Entomol 100(2):198-199
Feb 1968 421 C16
Cryptolestes turcicus, Methyl bromide, Oviposition, Parasitism, Reproduction.
Abstract

14155-68
OUTBREAKS OF TWO-SPOTTED SPIDER-MITES AND COTTON APHIDS FOLLOWING PESTICIDE TREATMENT. I. PEST STIMULATION VS NATURAL ENEMY DESTRUCTION AS THE CAUSE OF OUTBREAKS.
B R Bartlett
J Econ Entomol 61(1):297-303 REF
Feb 1968 421 J822
Aphis gossypii, Beneficial insects, Chemical control (insects), Insect outbreaks, Insecticides, Natural control (insects), Tetranychus urticae.
Abstract

14156-68
HIBERNATION SITE AND DISPERSAL OF SPRUCE BUDWORM LARVAE AS RELATED TO DAMAGE OF SAPLING BALSAM FIR.
H O Batzer
J Econ Entomol 61(1):216-220 REF
Feb 1968 421 J822
Abies balsamea, Choristoneura fumiferana, Forest insects, Hibernation, Insect dissemination.
Abstract

14157-68
THE EFFECT OF ILLUMINATION AND POOL BRIGHTNESS ON OVIPOSITION BY CULEX RESTUANS (THEO.) IN THE FIELD.
P Belton
Mosquito News 27(1):66-68 REF
Mar 1967 421 M85
Color, Culex restuans, Insect behavior, Light, Ovulation, Phototropism.
Abstract: Artificial pools in a natural woodland environment received more than three times as many egg rafts of C. restuans when lined with black as opposed to translucent polyethylene film. Illumination at night of either type of pool with an intensity similar to that received during the day prevented oviposition.

14158-68
INSECTICIDE RESISTANCE OF GERMAN COCKROACHES FROM VARIOUS AREAS OF LOUISIANA.
G W Bennett W T Spink
J Econ Entomol 61(2):426-431 REF
Apr 1968 421 J822
Blattella germanica, Chlordane, Diazinon, Fenthion, Insecticide resistant insects, Isopropoxyphenyl methylcarbamate, o-, Malathion.
Abstract

14159-68
ORIENTATION BEHAVIOUR IN INSECTS AND FACTORS WHICH INFLUENCE IT.
G Birukow
Roy Entomol Soc London Symp 3:1-12 REF
1966 420 R81
Insect flight, Reviews.

14160-68
NOTES ON THE FEMALE REPRODUCTIVE SYSTEM OF THE SOUTH AFRICAN CITRUS PSYLLA, TRIOZA ERYTREAE (DEL GUERCIO) (HOMOPTERA: PSYLLIDAE).
J R Blowers V C Moran
Entomol Soc Southern Afr J 30(1):75-81 REF
Jun 1967 420 EN86
Citrus, Insect morphology, Psyllidae, Reproductive organs, Trioza erytreae.
Abstract

14161-68
FATTY ACIDS IN THE BOLL WEEVIL.
M S Blum
Entomol Soc Amer Ann 56(5):612-616, 11 REFS., 3 TABS.
Sep 1963 420 EN82
Anthonomus grandis, Fatty acids.

14162-68
CHANGES IN TEMPERATURE TOLERANCE WITH ADULT AGE IN TENEBRIO MOLITOR.
K Bowler
Entomol Exp Appl 10(1):16-22 REF
1967 421 EN895
Insect mortality, Temperature, Tenebrio molitor.

14163-68
THE RESPONSE OF THE LABELLAR TASTE RECEPTORS OF DDT-RESISTANT AND NON-RESISTANT HOUSEFLIES (MUSCA DOMESTICA) TO DDT.
L B Browne R W Kerr
Entomol Exp Appl 10(3):337-346
1967 421 EN895
Chemoreceptors, DDT, Insecticide resistant insects, Musca domestica, Sense organs.
German summary
Abstract

14164-68
A REARING METHOD FOR AEDES ABSERRATUS (F. AND Y.).
R A Brust K S Kalpage
Mosquito News 27(1):117 REF
Mar 1967 421 M85
Aedes abserratus, Insect biology, Insect rearing, Temperature.

14165-68
MOTHPROOFING INVESTIGATIONS WITH BARTHRIN AND DIMETHRIN.
R E Bry L L McDonald J E Lang
J Econ Entomol 59(5):1108-1110
Oct 1966 421 J822
Barthrin, Dimethrin, Mothproofing.

14166-68
WARBLE FLY LARVAE CONTROL STUDY.
T D Burgess W C Allan A J Mozier
Entomol Soc Ontario Proc 97:117-120
1966 420 ON8
Conmaphos, Fenthion, Hypoderma, Insecticides, Larvicides, Trichlorfon.

14167-68
A NEW POLYEMBRYONIC PARASITE OF THE PEPPER MOTH (HYMENOPTERA: ENCYSTIDAE).
R D Burks
Entomol Soc Wash Proc 69(1):53-55
28 Mar 1967 420 W27
Copidosoma capsicum, Gnorimoschema capsicum.

14168-68
GARDEN ANTS, LASIUS NIGER L., BUILDING SHELTERS FOR APHIDS.
J P Burton
Entomol Rec J Variation 79(6):179
Jun 1967 421 EN89
Aphididae, Formicidae, Insect behavior, Lasius niger, Macrolophus subpacula.

14169-68
A SEX ATTRACTANT ACTING AS AN APHRODISIAC IN THE HONEYBEE (APIS MELLIFERA L.).
C G Butler
Roy Entomol Soc London Proc Ser A Gen Entomol 42(4):71-76
27 Jun 1967 420 L84RA
Apis mellifera, Oxodecenoic acid, 9-, Sex attractants, Sex behavior.
Abstract

14170-68
LOUISIANA LAB TAKES INTENSIVE LOOK AT PARASITES FOR MOSQUITO CONTROL.
H C Chapman T B Clark J J Petersen D B Woodard
Pest Contr 36(5):64,66,68,71-73
May 1968 449.8 EX8
Biological control (insects), Coelomomyces, Culicidae, Insecticides, Mosquito iridescent virus, Nematodes, Parasitic insects, Parasitism, Protozoa.

14171-68
NEMATODE PARASITES OF CULICIDAE AND CHAOBORIDAE IN LOUISIANA.
R C Chapman D E Woodard J J Petersen
Mosquito News 27(4):490-492 REF
Dec 1967 421 M85
Chaoboridae, Corethrella brakeleyi, Culicidae, Insect diseases, Nematodes, Parasitism.

14172-68
NEW RECORDS OF PARASITES OF CERATOPOGONIDAE.
H C Chapman J J Petersen D E Woodard T B Clark
Mosquito News 28(1):122-123 REF
Mar 1968 421 M85
Ceratopogonidae, Insect diseases, Mermithidae, Nematodes, Nosematidae, Parasitism, Protozoa, Viruses.

14173-68
COMPARISON OF TWO ARTIFICIAL DIETS FOR REARING HELIOTHIS ZEA LARVAE FOR INSECTICIDE TESTS.
A R Chanthani P L Adkisson
J Econ Entomol 5B(6):1163-1164
Dec 1965 421 J822
Heliothis zea, Insect nutrition, Insect rearing.

14174-68
STEMPELLIA MAGNA IN THE TREE HOLE MOSQUITO, AEDES SIERRENSIS.
T E Clark T Fukuda
J Invertebrate Pathol 9(3):430-431
Sep 1967 421 J826
Aedes sierrensis, Culicidae, Insect diseases, Stempellia magna.
Abstract

14175-68
SOME EARLY EFFECTS OF IONIZING RADIATION ON THE GERMAN COCKROACH, BLATTELLA GERMANICA.
D G Cochran
Entomol Soc Amer Ann 56(3):256-261, 22 REFS., 3 TABS.
May 1963 420 EN82
Blattella germanica, Ionizing radiation scattering.

14176-68
SUPPLEMENTARY OBSERVATIONS OF THE EARLY DEVELOPMENTAL STAGES OF ALBIA CAERULEA (ACARINA: AXONOPSIDAE).
R M Crowell
Can Entomol 100(2):178-180
Feb 1968 421 C16
Albia caerulea, Insect morphology, Larvae, Ovipositors.
Abstract

14177-68
PENETRATION OF THE TAHYNA VIRUS TO VARIOUS ORGANS OF THE AEDES VEXANS MOSQUITO.
V Danielova
Folia Parasitol 15:87-91 REF
1968 436.8 C33
Aedes vexans, Arboviruses, Gastrointestinal system, Insect histology, Insect physiology, Reproductive organs, Salivary glands, Tahyna virus.
Abstract: The virus was recorded in all examined organs: oesophagus with dorsal and ventral diverticles, ventriculus with intestine, lymph salivary glands, ovaries, Malpighian tubules and ganglia. The highest amount of virus was detected in ventriculus with intestine, the lowest in the Malpighian tubules.

14178-68
THE STRUCTURE AND SECRETION OF THE SPERMATHECA OF RHODNIUS PROLIXUS STAL: A HISTOCHEMICAL STUDY.
K G Davey G F Webster
Can J Zool 45(5):653-657
Sep 1967 470 C16D
Reproductive organs, Rhodnius prolixus, Secretion.
Abstract

14179-68
RELEASES OF STERILE SCREW-WORM FLIES IN NORTHERN VERACRUZ, MEXICO, MEASURED BY RECOVERY OF STERILE EGG MASSES.
R B Davis B G Hightower D A Alley J E Turner E Lopez
J Econ Entomol 61(1):96-101,MAP
Feb 1968 421 J822
Aerial pest control, Biological control (insects), Cochliomyia hominivorax, Insect eggs, Sterility.
Abstract

14180-68
ISOLATION OF CERAMIDE PHOSPHORYLETHANOLAMINE FROM THE BLOWFLY CALLIPHORA ERYTHROCEPHALA.
R M C Dawson P Kemp
Biochem J 106(1):319-320 REF
Jan 1968 382 R52
Biochemistry, Calliphora vicina, Ceramide phosphorylethanolamine, Phospholipids.

14181-68
WINTER SURVIVAL AND OVERWINTERING AREA OF THE POTATO LEAFHOPPER.
G C Decker H R Cunningham
J Econ Entomol 61(1):154-161, MAP REF
Feb 1968 421 J822
Empoasca fabae, Hibernation, Insect populations, Mortality, Statistical analysis, Temperature, Zoogeography.
Abstract:
data are presented which correlate the decline and eventual elimination of potato leafhopper populations with the decline of mean temperatures in the fall. winter survival is limited to portions of the Gulf Coast area.

14182-68
THE INFLUENCE OF SOIL MOISTURE AND SOME SOIL PHYSICAL FACTORS ON THE OVIPOSITIONAL BEHAVIOR OF THE PRAIRIE GRAIN WIREWORM, CTENICERA DESTRUCTOR.
J F Doane
Entomol Exp Appl 10(3):275-286
1967 421 EN895
Ctenicera aeripennis destructor, Insect behavior, Ovulation, Soil moisture, Soil properties.
German summary
Abstract

14183-68
NOTES ON SPIDER PARASITES, INCLUDING A REFERENCE LIST.
R R Eason W E Peck W R Whitcomb
Kans Entomol Soc J 40(3):422-434 REF
Jul 1967 420 K13
Diptera, Hymenoptera, Parasitic insects, Spiders.
Abstract

14184-68
THE FEEDING HABITS OF ADULTS OF CHRYSOPA CALIFORNICA COQUILLETT (NEUROPTERA: CHRYSOPIDAE).
E A Elhadry C A Fleschner
Soc Entomol Egypte Bull 49:359-366 REF
1966 420 EG9
Chrysopa californica, Insect behavior, Insect nutrition, Predaceous insects.

14185-68
DISSOLUTION OF THE TOXIC PARASPORAL CRYSTALS FROM BACILLUS THURINGIENSIS VAR PACIFICUS BY THE GUT SECRETIONS OF THE SILKWORM, BOMBYX MORI.
R M Fanst J R Adams A M Heimpel
J Invertebrate Pathol 9(4):488-499 REF
Dec 1967 421 J826
Bacillus thuringiensis, Bombyx mori, Caterpillars, Intestines, Secretions, Toxins.
Abstract

14186-68
THE EFFECT OF GAS VELOCITY ON THE ABSORPTION OF FUMIGANT NICOTINE BY MUSCA DOMESTICA (L.).
D J Galley
J Stored Prod Res 3(3):213-222
Oct 1967 421 J829
Absorption (biological), Fumigants, Gases, Musca domestica, Nicotine, Velocity.
Abstract

14187-68
EFFECTS OF PHLOEM TEMPERATURE AND MOISTURE CONTENT OF THE SOUTHERN PINE BEETLE.
G C Ganmer R I Gara
Boyce Thompson Inst Contrib 23(11):373-377 REF
Jul 1967 451 B69
Dendroctonus frontalis, Humidity, Insect ecology, Phloem,

10 14188-68

Pinus taeda, Scolytidae, Temperature.
Abstract: Phloem moisture content and temperature regimes necessary to produce vigorous southern pine beetle broods were determined. Development of beetles was measured by pupal weight, time to adult emergence and ratio of increase.

14188-68
IMAGINAL CELLS OF THE CLYPEUS-LABRUM AND THE DEVELOPMENT OF PROSOPSIS IN DROSOPHILA MELANOGASTER. (GE)
W Gebhrig S Scheel
Rev Suisse Zool 47(3):589-613
Dec 1967 410 R324
Drosophila melanogaster.
English summary.

14189-68
INSEMINATION WITHOUT SPERMATOPHORES IN THE ORIENTAL FRUIT MOTH, GRAPHOLITHA MOLESTA (LEPIDOPTERA: TORTRICIDAE).
J A George R G Howard
Can Entomol 100(2):190-192
Feb 1968 421 C16
Grapholitha molesta, Insect morphology, Insemination, Ovipositors, Spermatophores.
Abstract

14190-68
A POSSIBLE MECHANISM FOR THE REGULATION OF THE FEMALE REPRODUCTIVE CYCLE IN TENEBRIO MOLITOR (COLEOPTERA: TENEBRIONIDAE).
G A Gerber
Can Entomol 99(12):1298-1303 REF
Dec 1967 421 C16
Nervous system, Reproduction, Tenebrio molitor.
Abstract

14191-68
A METHOD OF PROVIDING ARTIFICIAL DIETS TO CHRYSOPA LARVAE.
K S Hagen R L Tassan
J Econ Entomol 58(5):999-1000
Oct 1965 421 J822
Diet, Larvae, Synthetic diets.

14192-68
STUDIES ON MICROPLITIS RUFIVENTRIS KOK. 1. (HYMENOPTERA: BRACONIDAE).
S M Hammad A M El-Minshawy A Salama
Soc Entomol Egypte Bull 49:215-219
1966 420 E69
Microplitis rufiventris, Parasitic insects, Prodenia litura, Spodoptera exigua, Spodoptera latebrosa.

14193-68
SUITABILITY OF ANAITIS PLAGIATA (GEOMETRIDAE) FOR BIOCONTROL OF HYPERICUM PERFORATUM IN DRY GRASSLAND OF BRITISH COLUMBIA.
P Harris
Can Entomol 99(12):1304-1310 REF
Dec 1967 421 C16
Anaitis plagiata, Biological control (weeds), Host specificity, Hypericum perforatum.
Abstract

14194-68
THE EFFECT OF BACILLUS THURINGIENSIS BERLINER ON DROSOPHILA MELANOGASTER MEIGEN.
T L Harvey D E Bowell
J Invertebrate Pathol 5(4):495-497
Dec 1963 421 J826
Drosophila melanogaster, Insect diseases, Microorganisms.

14195-68
RIBOSOME AGGREGATES OF THE MIDGUT OF SILKWORM, BOMBYX MORI L.
Y Hayashi
Can J Biochem 46(1):117-119 REF
Jan 1968 470 C16E
Biochemistry, Bombyx mori, Cells, Insect physiology, Intestines, Larvae, Ribonuclease, Ribosomes, Trypsin.
Abstract: Results suggest ribosomal assemblage may be stabilized by protein or peptide synthesized on the ribosomes.

14196-68
THE SUCCESSFUL INDUCED COPULATION OF CULISETA MELANURA (COQUILLETT).
D E Hayes
Mosquito News 28(1):109-110 REF
Mar 1968 421 M85
Culiseta melanura, Feeding, Insect rearing, Reproduction.

14197-68
A TAXONOMIC KEY PROPOSED FOR THE SPECIES OF THE "CRYSTALLIFEROUS BACTERIA".
A M Heimpel
J Invertebrate Pathol 9(3):364-375 REF
Sep 1967 421 J826
Bacillus thuringiensis, Bacteria, Insect diseases, Taxonomy.
Chiefly B. thuringiensis varieties
Abstract

14198-68
STRUCTURE AND PHOTOACTIVE DEVICES OF THE EGG OF THE MOSQUITO CULEX PIPIENS.
H E Hinton
J Insect Physiol 14(2):145-161 REF
Feb 1968 421 J825
Culex pipiens, Eggs, Insect protective devices.
Abstract

14199-68
OBSERVATIONS ON THE CULICIDAE OF A GARDEN POND IN HIHIMAKI.
M Hirvenoja
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(3):211-212
02 Nov 1967 421 S07
Aquatic insects, Culex, Culiceta, Insect behavior.

14200-68
STUDIES ON SOUTHEAST ASIAN HAEMAPHYSALIS TICKS (IXODOIDEA: IXODIDAE). B. (KAISERIANA) LUZONENSIS SP. N. FROM PHILIPPINE DEER AND BOARS.
H Hoogstraal D W Parrish
J Parasitol 54(2):402-410 REF
Apr 1968 448.8 J824
Boars, Deer, Ecology, Haemaphysalis luzonensis, Ixodidae, Taxonomy.

14201-68
THE EGGS AND OVIPOSITION SITES OF HYALIODES VITRIPENNIS ON APPLE TREES (MIRIDAE: HEMIPTERA).
R L Horsburgh D Asquith
Can Entomol 100(2):199-201
Feb 1968 421 C16
Hyaliodes vitripennis, Ovipositors, Panonychus ulmi, Predaceous insects, Tetranychus urticae.
Abstract

14202-68
THE ROLE OF NUTRITIONAL FACTORS IN FOOD SELECTION AND PREFERENCE AS RELATED TO LARVAL NUTRITION OF AN INSECT, PSEUDOSARCOPHAGA AFFINIS (DIPTERA, SARCOPHAGIDAE), ON SYNTHETIC DIETS.
R L House
Can Entomol 99(12):1310-1321 REF
Dec 1967 421 C16
Experimental insects, Insect nutrition, Pseudosarcophaga affinis, Synthetic diets.
Abstract

14203-68
THE EFFECTS OF HORMONES ON THE INTESTINAL PROTEINASE ACTIVITY OF ADULT PYRRHOCORIS APTERUS L. (HEMIPTERA).
R Hrubesova K Slama
Acta Ent Bohemoslov 64(3):175-183
1967 420 C33
Corpora cardiaca, Hemiptera, Hormones, Intestines, Proteinases, Pyrrhocoris apterus.

14204-68
EPIZOOTICS AMONG POPULATIONS OF THE YELLOW MEALWORM, TENEBRIO MOLITOR.
A M Huger
J Invertebrate Pathol 9(4):572-574
Dec 1967 421 J826
Epizootic diseases, Insect diseases, Tenebrio molitor.

14205-68
THE BEHAVIOUR OF FLEAS (SIPHONAPTERA) WITHIN THE COCOON.
D A Humphries
Roy Entomol Soc London Proc Ser A Gen Entomol 42(4):62-70 REF
27 Jun 1967 420 L84PA
Ceratophyllus, Ctenocephalides, Insect behavior, Pupae, Siphonaptera.
Abstract

14206-68
FURTHER INVESTIGATIONS INTO THE BIOLOGY OF AIOLOPUS THALASSINUS F. (ORTHOPTERA: ACRIDIIDAE).
M M Ibrahim

Soc Entomol Egypte Bull 49:415-422
1966 420 EG9
Aiolopus thalassinus, Climate.

14207-68
LABORATORY AND FIELD CAGE TESTS WITH BACILLUS THURINGIENSIS AGAINST PINK-BOLLWORM LARVAE.
C M Ignoffo B M Graham
J Invertebrate Pathol 9(3):390-394
Sep 1967 421 J826
Bacillus thuringiensis, Biological control (insects), Insect diseases, Pectinophora gossypiella.
Abstract

14208-68
GLUCONEOGENESIS IN THE ORIENTAL SCENÉT VESPA ORIENTALIS F.
J Ishay B Ikan
Ecology 49(1):169-171 REF WINTER
1968 410 EC7
Carbohydrates, Carbon isotopes, Chlorella, Glyconeogenesis, Larvae, Proteins, Radioactive tracers, Vespa orientalis.
Abstract: It is suggested that the ability of larvae to carry out gluconeogenesis and transfer of formed sugars to the adults may play an important part in adult-larvae interrelations of various insect societies.

14209-68
PROCESS FOR CONTROLLING INSECTS WITH PHENYLTHIOCROTONATE.
PATENT 3,378,436.
E E Ivy
Us Patent Office Offic Gaz 849(3):782
16 Apr 1968 156.65 CP2
Chemical control (insects), Patents, Phenylthiocrotonate.

14210-68
PROSPECTS OF INTEGRATED MICROBIAL AND RADIATION CONTROL OF HARMFUL INSECTS.
S H Jafri
J Invertebrate Pathol 9(3):293-297 REF
Sep 1967 421 J826
Insect control, Insect diseases, Insect pests, Integrated control (insects), Irradiation, X-rays.
Theoretical insect pathology
Abstract

14211-68
ALTERATION OF FEEDING BEHAVIOR AND FERTILITY IN AEDES AEGYPTI BY THE CHEMOSTERILANT APHOLATE.
C L Judson
Entomol Exp Appl 10(3):387-393
1967 421 EN895
Aedes aegypti, Aphoxlate, Chemosterilants, Feeding, Fertility, Insect behavior, Insect physiology, Insect vectors, Plant disease transmission.
German summary
increased feeding may increase disease transmission by insects to both animals and plants.
Abstract

14212-68
ATTRACTION OF PEAR PSYLLA TO BLACKLIGHT.
G B Kalogostian W W Wolf
J Econ Entomol 61(1):145-147
Feb 1968 421 J822
Fluorescent lamps, Insect traps, Light traps, Phototropism, Psylla pyricola, Ultraviolet rays.
Abstract

14213-68
STUDIES ON THE OLFACTORY STIMULI GUIDING THE BARK BEETLE BLASTOPHAGUS PINIPERDA L (COLEOPTERA, SCOLYTIDAE) TO ITS HOST TREE.
E Kangas V Perttunen H Oksanen
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn
33(3):161-211 REF
02 Nov 1967 421 SU7
Blastophagus piniperda, Insect behavior, Pinus sylvestris, Scolytidae, Smell.
Abstract

14214-68
GROWTH CABINET FOR THE EFFICIENT HANDLING OF CONTAINERS USED FOR REARING INSECTS.
R Kasting A J McGinnis
Can Entomol 100(2):193-195
Feb 1968 421 C16
Agrotis orthogonia, Insect nutrition, Insect rearing equipment, Parasitic insects.
Abstract

14215-68
STUDY ON SPIDERS (PARTICULARLY REFERRING TO GRASS-SPIDERS) TO PREY UPON FALL-WEB WORMS (HYPHANTRIA CUNEA DRURY).
I Kayashima
Acta Arachnologica 21(1),30 P
01 Jul 1967 434.8 AC8
Biological control (insects), Hyphantria cunea, Insect pests, Predaceous insects, Spiders, Trees.

14216-68
SOME OUTSTANDING QUESTIONS IN INSECT BEHAVIOUR.
J S Kennedy
Roy Entomol Soc London Symp 3:97-112 REF
1966 420 R81
Insect behavior, Insect evolution, Reproduction, Sex determination, Sterility.

14217-68
THE DIGESTIVE ENZYMES OF THE LARVA OF UTETHEISA PULCHELLA LINNAEUS (LEPIDOPTERA: ARCTIDAE).
N Khatoon
Beitr Entomol 17(3/4):349-356 REF
1967 421 B392
Enzymes, Gastrointestinal system, Larvae, Utetheisa pulchella.

14218-68
MONOPSYLLUS THAMBUS (JOROAN, 1929) FROM THE ALPINE IN COLORADO.
J M Kinsella
J Parasitol 54(2):258
Apr 1968 448.8 J824
Mice, Monopsyllus thambus, Parasitic insects, Siphonaptera, Taxonomy.

14219-68
PARASITIZATION OF SOCIAL HALICTINE BEES IN SOUTHERN ONTARIO.
G Knerer C E Atwood
Entomol Soc Ontario Proc 97:103-110 REF
1966 420 ON8
Halictidae, Mites, Parasitic insects, Parasitism.

14220-68
ELECTRON-MICROSCOPE INVESTIGATION OF THE STRUCTURE OF THE NUCLEAR-POLYHEDROSIS VIRUS OF THE SILKWORM, BOMBYX MORI.
E A Kozlov I P Alexeenko
J Invertebrate Pathol 9(3):413-419 REF
Sep 1967 421 J826
Bombyx mori, Electron microscopy, Insect diseases, Polyhedroses.
Abstract

14221-68
INVESTIGATIONS OF RELATIONSHIPS OF EGG LENGTH TO FEMALE SIZE AND EGG NUMBER IN ANOPHELES CLAVIGER TYPICUS MEIGEN, WITH REFERENCES TO DEVELOPMENT OF LENGTH IN LARVAE. (INVESTIGATIONS OF THE INSECT FAUNA IN PLACE 15). (DIPTERA: CULICIDAE). (GE)
F Kuhlhorn
Beitr Entomol 17(3/4):336-347 REF
1967 421 B392
Anopheles claviger, Insect eggs, Insect physiology, Larvae.
English summary.

14222-68
ON THE PARASITES OF THE PINE CATERPILLAR, DENDROLIMUS SPECTABILIS BUTLER, IN A PURE STAND AKAMATSU-PINE FOREST IN THE SUBURBS OF SEOUL IN KOREA. (JA)
K C Lee
Jap J Appl Entomol Zool 11(4):189-191
Dec 1967 475 J27
Dendrolimus spectabilis, Forest insects, Hymenoptera, Parasitic insects, Pinus, Tachinidae.

14223-68
AN INTERESTING REARING OF EUDIA PAVONIA (ATTACIDAE). (FR)
G Lugnet
Alexanor 5(1):2-7
1967 421 AL2
Insect rearing, Saturnia pavonia, Saturniidae.

14224-68
APPRESSORIUM-LIKE STRUCTURES IN INSECT PARASITIZING DEUTEROMYCETES.
M F Madelin R K Robinson R J Williams
J Invertebrate Pathol 9(3):404-412 REF
Sep 1967 421 J826
Beauveria bassiana, Caterpillars, Deuteromycetes, Entomogenous fungi, Insect diseases, Metarrhizium anisopliae, Phytodecta olivacea, Poecilomyces farinosus, Tenebrio molitor,

10 14225-68

Tomaspis saccharina.
Abstract

14225-68
THE ATTRACTION OF SALTS AND OTHER NUTRIENTS TO THE LARVAE OF FABRIC INSECTS.
A Mallis E T Burton A C Miller
J Econ Entomol 55(3):351-355, TABS.
Jun 1962 421 J822
Anthrenus flavipes, Attagenus picens, Attractants, Household insects, Insects, Larvae, Salts, Textiles, Tineola bisselliella.

14226-68
SEXUAL BEHAVIOUR.
A Manning
Roy Entomol Soc London Symp 3:59-68 REF
1966 420 E81
Insect behavior, Reviews, Sex behavior.

14227-68
PRECOCIOUS TERMINATION OF OBLIGATORY DIAPAUSE IN FIELD-COLLECTED PUPAE OF ANTHERAEA POLYPHEMUS.
A Mansingh E R Smallman
Can Entomol 100(2):134-139
Feb 1968 421 C16
Antheraea polyphemus, Diapause, Insect mortality.
Abstract

14228-68
VERTEBRATE PREDATION ON THE JACK-PINE BUDWORM IN MICHIGAN.
W J Mattson P E Knight D C Allen J L Foltz
J Econ Entomol 61(1):229-234 REF
Feb 1968 421 J822
Birds, Choristoneura pinus, Forest insects, Insect populations, Mammals, Predatory animals.
Abstract

14229-68
EFFECT OF DIET ON THE LIPID COMPOSITION OF THE COCKROACH BLABERUS DISCOIDALIS.
J L McGuire A E S Gassin
Compar Biochem Physiol 22(2):427-433 REF
Aug 1967 444.8 C73
Biochemistry, Blaberus discoidalis, Chromatography, Diet, Fat body, Fatty acids, Lipids.
Abstract

14230-68
THE INFLUENCE OF THREE INSECTICIDES ON PREDATION OF THE PEAR PSYLLA, PSYLLA PYRICOLA.
E D McMullen C Jong
Can Entomol 99(12):1292-1297
Dec 1967 421 C16
Azinphosmethyl, Ddt, Insecticides, Psylla pyricola, Ryania.
Abstract

14231-68
THE RELATION BETWEEN SOIL WATER TENSION AND GROWTH RATE OF LARVAE OF TIPULA OLERACEA AND T PALUDOSA (DIPTERA) IN TURF.
A Keats
Entomol Exp Appl 10(3):312-320
1967 421 EN895
Growth factors, Larvae, Soil moisture, Tipula oleracea, Tipula paludosa, Turf.
German summary
Abstract

14232-68
MORPHOLOGICAL AND BIOLOGICAL INVESTIGATIONS OF CLONES AND FIELD POPULATIONS OF THE GREEN-FLECKED POTATO APHID, AULACORTHUM SOLANI KLTE 1843 SENSU LATIORE (REMIFT. APHID.). (GE)
W Meier
Schweiz Entomol Ges Mitt 39(3/4):129-150
15 Apr 1967 420 SW6
Acyrthosiphon solani.
English summary.

14233-68
SOME RELATIONSHIPS OF FACE FLY FEEDING, OVARIAN DEVELOPMENT, AND INCIDENCE ON DAIRY CATTLE.
T A Miller R E Treece
J Econ Entomol 61(1):250-257 REF
Feb 1968 421 J822
Dairy cattle, Insect behavior, Insect nutrition, Insect physiology, Musca autumnalis, Ovaries.
Abstract

14234-68
STABILITY OF CHILO IRIDESCENT VIRUS. (JA)
J Mitsuhasai K Koyama
Jap J Appl Entomol Zool 11(4):177-181
Dec 1967 475 J27
Chilo, Iridescent virus.
English summary
Abstract

14235-68
ON THE BIOLOGY OF THE SOUTH AFRICAN CITRUS PSYLLA, TRIOZA ERYTREAE (DEL GUERCIO) (HOMOPTERA: PSYLLIDAE).
V C Moran J R Blowers
Entomol Soc Southern Afr J 30(1):96-106 REF
Jun 1967 420 EN86
Citrus, Insect biology, Psyllidae, Trioza erytreae.
Abstract

14236-68
A NEW BRACONID PARASITE OF THE POTATO TUBERWORM (HYMENOPTERA).
C E W Mneseheck
Entomol Soc Wash Proc 69(2):177-178
Jun 1967 420 W27
Braconidae, Insect taxonomy, Orgilus lepidus, Parasitic insects, Phthorimaea operculella.

14237-68
A CULTURE METHOD FOR MYRMECOPHILOUS ROOT APHIDS.
D A Muir
Bull Entomol Res 51(1):7-8
Apr 1960 421 B87
Aphididae, Culture media, Formicidae, Myrmecophilous insects.

14238-68
SYNERGISM OF MALATHION AGAINST THE NORTHERN FOWL MITE.
T E Nelson K M R Bertun
J Econ Entomol 58(6):1117-1118
Dec 1965 421 J822
Insecticide resistant insects, Insecticide synergists, Malathion, Ornithonyssus sylviarum.

14239-68
PRELIMINARY REPORT OF THE EFFECTS OF BACTERIAL SPECIES UPON THE EUROPEAN CORN BORER.
D R Nesbitt R L Zimmack
J Econ Entomol 61(2):462-464
Apr 1968 421 J822
Bacteria, Insect diseases, Ostrinia nubilalis.
Abstract

14240-68
SUSCEPTIBILITY OF WIREWORMS TO ALDRIN IN EASTERN WASHINGTON.
J A Onsager J C Maitlen
J Econ Entomol 59(5):1120-1123
Oct 1966 421 J822
Aldrin, Insecticide resistant insects, Limonius californicus.

14241-68
THE ARTIFICIAL FEEDING OF PHOSPHAMIDON TO MYZUS PERSICAE: I. INTRASPECIFIC DIFFERENCES EXHIBITED BY THIS APHID ON FEEDING THROUGH A PARAFILM MEMBRANE.
W R Parry J E Ford
Entomol Exp Appl 10(3):437-452 REF
1967 421 EN895
Feeders, Feeding, Myzus persicae, Phosphamidon.
French summary
Abstract

14242-68
NUCLEAR POLYHEDROSIS OF THE GRAM POD BORER, HELIOTHIS ARMIGERA.
R C Patel P E Patel
J Econ Entomol 61(1):191-193
Feb 1968 421 J822
Heliothis armigera, Insect diseases, Insect rearing, Polyhedroses.
In a laboratory insect rearing study.
Abstract

14243-68
HOUSE-FLY ADENOSINETRIPHOSPHATASES AND THEIR INHIBITION BY INSECTICIDAL ORGANOTIN COMPOUNDS.
G E Pieper John E. Casida
J Econ Entomol 58(3):392-400, BIBL. 399-400
Jun 1965 421 J822
Adenosinetriphosphatase, Insecticides, Musca domestica, Organotin compounds.

14244-68
ACTIVITY AND CONTROL OF WOODLAND INSECTS.
D A Pierce
Agr Chem 23(5):33,36-37
May 1968 381 AG8
Adelges, Bacillus thuringiensis, Choristoneura, Dendroctonus, Forest insects, Insect control, Insect pests, Zectran.

14245-68
A NOTE ON THE OVIPOSITION OF SIMULIUM (S.) ARGYREATUM MEIGEN.
A P Pcole
Entomologist (londcn) 100(1248):121-123
May 1967 421 EN8
Insect behavior, Ovulation, Simulium argyreatnm.

14246-68
THE PHOSPHOLIPASE AND GELATINASE ACTIVITY OF GRAM-NEGATIVE BACTERIA ISOLATED FROM DISEASED INSECTS, AND TYPING OF STRAINS OF SERRATIA MARCESCENS.
B E Prinslcc
J Invertebrate Pathol 9(3):420-427 REF
Sep 1967 421 J826
Bacteria, Gelatinase, Insect diseases, Phospholipase, Serratia marcescens.
Abstract

14247-68
PARTURITION IN THE SCORPION ISOMETRUS MACULATUS DE GEER (BUTHIDAE). (GE)
P Probst
Rev Suisse Zool 47(3)616-619
1967 41C B324
Isometrns maculatus, Reprodnction.

14248-68
PARASITES OF THE LEAF ROLLERS ARCHIPS ARGYROSPILUS AND A GRISEUS IN CONNECTICUT.
R J Prokopy
J Econ Entomol 61(2):348-352 REF
Apr 1968 421 J822
Apples, Archips argyrospilus, Archips griseus, Connecticut, Hymenoptera, Parasitic insects, Tachinidae.
Abstract

14249-68
HISTOLOGICAL CHANGES IN PLUSIA ORICHALCEA CAUSED BY BACILLUS THURINGIENSIS.
N Ramakrishnan L D Tiwari
J Invertebrate Pathol 9(4):579-580
Dec 1967 421 JR26
Bacillus thuringiensis, Insect diseases, Insect histology, Plusia orichalcea.

14250-68
NOTES ON THE TOXICITY OF A COMMERCIAL PREPARATION OF BACILLUS THURINGIENSIS VAR. THURINGIENSIS BERLINER ON SOME LEPIDOPTERA AND TENTHREDINIDAE LARVAE.
J Rantapaa
Ann Agr Fenn 6(2-3):103-105 REF
1967 20 AN7
Athalia colibri, Bacillus thuringiensis, Biological control (insects), Larvae, Lepidoptera, Pieris brassicae, Plutella maculipennis, Priophorus tristis, Pteronus ribesii, Tenthredinidae.
English and finnish abstracts.
Abstract: The toxicity of the commercial B. thuringiensis preparation Bictrol BTB, proc. 183, containing 25 x 109 spores per gram, to the larvae of Plutella maculipennis, Pieris brassicae, Athalia colibri, Pteronus ribesii and Priophorns tristis, was tested in the laboratory. At each rate of application (0.5, 1, 2 and 3 grams per sguare metre) the powder caused the death of the P. maculipennis larvae within 2-3 days and the death of P. brassicae larvae within 5-6 days. The effect of the preparation upon the sawfly larvae was slower, and some of these pupated. Nevertheless, 83-100 percent of the A. colibri larvae died within 7 days, 83 percent of the P. ribesii larvae within 5 days and 82 percent of the P. tristis larvae within 13 days.

14251-68
NOTES ON THE LIFE HISTORY OF ALEOCHARA BILINEATA (GYLL.) (COLEOPTERA:STAPHYLINIDAE), AND ON ITS POTENTIAL VALUE AS A CONTROL AGENT FOR THE CABBAGE MAGGOT, HYLEMYA BRASSICAE (ROUCHE) (DIPTERA: ANTHOMYIIDAE).
D C Read
Can Entomol 94(4):417-424, BIBL. 423-424
Apr 1962 421 C16
Aleochara bilineata, Hylemya brassicae, Parasitic insects.

14252-68
A MORPHOLOGICAL AND FUNCTIONAL STUDY OF THE VENOM APPARATUS IN REPRESENTATIVES OF SOME MAJOR GROUPS OF HYMENOPTERA.
P L Robertson
Australian J Zool 16(1):133-166 REF
Feb 1968 410 AU73
Hymenoptera, Insect morphology, Insect physiology, Poison glands, Reproductive organs.
Abstract: Principally Australian species considered, and relationship between venom apparatus and accessory reproductive glands of other insects is given. Evidence is presented of evolutionary continuity among hymenopterons groups. Major changes of form in components of apparatus is related to what is known of changes in functions.

14253-68
AN AUTOGENOUS GYNANDROMORPH OF CULEX TARSALIS COQ.
R Rosay
Mosqnito News 28(1):120 REF
Mar 1968 421 M85
Culex tarsalis, Gynandromorphism, Insect morphology.

14254-68
ANATOMY AND HISTOLOGY OF RODOLIA CARDINALIS MULS. (COLEOPTERA COCCINELLIDAE). (II)
G Russo
Portici Lab Entomol Agr Filippo Silvestri Boll 24:247-307 REF
1966 420 PR2R
Insect anatomy, Insect histology, Rodolia cardinalis.
English summary.

14255-68
EVALUATION OF THE EFFECTIVENESS OF SOME ORGANOPHOSPHORUS INSECTICIDES AGAINST TWO SPECIES OF APHIDS.
R S Saini
Indian J Entomol 29(1):34-43 REF
Mar 1967 420 IN23
Aphididae, Aphis gossypii, Chili, Cotton, Cruciferae, Diazinon, Eggplant, Hyadaphis psendobrassicae, Insecticide application, Methyl demeton, Mevinphos, Okra, Parathion.
Abstract

14256-68
SELECTION OF PUPATION SITE BY DROSOPHILIA MELANOGASTER AND D. SIMULANS.
D D Sameoto R S Miller
Ecology 49(1):177-180 WINTER
1968 410 EC7
Drosophila melanogaster, Drosophila simulans, Hnmidity, Insect behavior, Insect popnlations, Larvae.
Abstract: D. melanogaster and D. simnlans larvae were tested to determine their choice of pupation site in relation to larval density and moisture content of the medium.

14257-68
CHANGES IN THE CONTENTS IN RESPECT TO THE ENERGY PRODUCING RESERVE MATERIAL DURING THE CAST DIFFERENTIATION OF FORMICA POLYCTENA FOERST (INS. HYM.). (GE)
G R Schmidt
Biol Zentralbl 86(1):5-66 REF
Jan 1967 442.8 B523
Biochemistry, Formica polyctena, Insect physiology, Respiration.
Englisb and German summaries
Abstract

14258-68
OBSERVATIONS ON CULEX PIPIENS LARVAE INFESTED WITH VORTICELLA SP.
R Schober
Mosqnito News 27(4):523-524 REF
Dec 1967 421 M85
Cnlex pipiens, Insect diseases, Larvae, Protozoa.

14259-68
PAROUS/NULLIPAROUS CONDITION OF UNFED ANOPHELES GAMBIAE AND ANOPHELES FUNESTUS CAPTURED IN EXIT TRAPS.
L S Self C P Pant
Mosqnito News 28(1):62-64 REF
Mar 1968 421 M85
Anopheles funestus, Anopheles gambiae, Feeding, Insect behavior, Reprodnction.
Abstract: During August through October 1966, approximately 40.9 percent of the anopbelines leaving village huts near Kaduna in Northern Nigeria were macroscopically classified as nnfed. Simple age-gronping of unfed A. gambiae and A. funcestns indicated that 56.1 percent and

10 14260-68

35.9 percent respectively were nulliparous. A small percentage of the nulliparous and parous specimens of both species were found to have blood in the stomach when examined microscopically.

14260-68
A SECRETORY APERTURE ON THE FIRST SEGMENT OF THE CHELICERA IN THE NEMASTOMATIDAE, AND ITS USE IN TAXONOMY (OPILIONIDEA). (GE)
V Silhavy
Acta Ent Echemoslov 64(4):319-321
1967 420 C33
Anatomy, Insect taxonomy, Nemastomatidae, Phalangida.

14261-68
EFFECT OF GAMMA IRRADIATION ON THE GROWTH RATE OF SPECIES OF BACILLUS CEREUS GROUP.
W A Skinner R Cantin
J Invertebrate Pathol 9(3):357-363
Sep 1967 421 J826
Bacillus cereus, Bacillus thuringiensis, Gamma rays, Insect diseases, Irradiation.
B. thuringiensis varieties
Abstract

14262-68
INSECT COLONIZATION AND MASS PRODUCTION. QL497 .S6.
C N Smith
618 P. ACADEMIC PRESS, NEW YORK
1966
Experimental insects, Insect rearing.

14263-68
HYDROGEN ION CONCENTRATION (PH) AS RELATED TO THE OCCURRENCE AND ABUNDANCE OF TREE-HOLE DWELLING CULICOIDES SPP, (DIPTERA: CERATOPOGONIDAE IN NORTHERN FLORIDA.
W W Smith J H Varnell
Mosquito News 27(4):519-521
Dec 1967 421 M85
Culicoides, Forest insects, Hydrogen-ion concentration.

14264-68
PREVIOUSLY UNREPORTED ACCESSIONS FOR DIAGNOSIS AND NEW RECORDS.
E A Steinhaus G A Marsh
J Invertebrate Pathol 9(3):436-438
Sep 1967 421 J826
Entomogenous fungi, Insect diseases, Viruses.

14265-68
THE SYNCHRONIZATION OF THE LIFE CYCLE OF DIAPAUSING FACE FLIES, MUSCA AUTUMNALIS, AND OF THE NEMATODE, HETERDTYLENCHUS AUTUMNALIS.
J G Stoffolano
J Invertebrate Pathol 9(3):395-397
Sep 1967 421 J826
Heterotylenchus autumnalis, Insect biology, Musca autumnalis, Nematodes, Parasitism.
Abstract

14266-68
NEMATODE PARASITE (HETEROTYLENCHUS SP.) OF FACE FLY IN NEW YORK STATE.
J G Stoffolano Jr W E Nickle
J Econ Entomol 59(1):221-222
Feb 1966 421 J822
Biological control (insects), Heterotylenchus, Musca autumnalis, Nematodes, Parasitic insects, Parasitic nematodes, Parasitism.

14267-68
READING METHODS FOR STUDYING THE EFFECT OF THE PHYSIOLOGICAL CONDITION OF THE HOST PLANT ON THE POPULATION DEVELOPMENT OF PANONYCHUS ULM: (ACCH).
J J R Storms
Wageningen Inst Plantenziektenkundige Onderz Mededel
7(2):79-85 REF
1965 464.9 W123
Apples, Arthropod rearing, Diet, Nitrogen, Plant physiology, Tetranychus urticae.
English and italian abstracts
Abstract: To study the relationships between a phytophagous pest and its host plant, spider mite is reared on leaves of one year old apple rootstocks growing in a gravel-culture on feeding solutions with various nitrogen levels. The difficulties met in these experiments are discussed. Also some data concerning the rearing of Tetranychus urticae on an artificial diet are given.

14268-68
AGGREGATION BEHAVIOR OF PEA APHIDS, ACYRTHOSIPHON PISUM.
P E Strong
Entomol Exp Appl 10(3):463-475 REF
1967 421 EN895
Acyrthosiphon pisum, Insect behavior.
German summary
Abstract

14269-68
INFECTION OF CULTURED SILKWORM EMBRYOS WITH THE CYTOPLASMIC-POLYHEDROSIS VIRUS. (JA)
T Takami H Sugiyama T Kitazawa T Kanda
Jap J Appl Entomol Zool 11(4):182-186
Dec 1967 475 J27
Bombyx mori, Insect diseases, Polyhedroses.
English summary
Abstract

14270-68
A CHROMOSOME STUDY OF TWO PARTHENOGENETIC SCOLYTID BEETLES.
Y Takenouchi K Takagi
Annot Zool Jap 40(2):105-110 REF
Jun 1967 410 AN79
Chromosomes, Parthenogenesis, Xyleborus.
Abstract: Chromosomes in cleavage and germ cells of Xyleborus germanus and X. compactus, were studied. Special emphasis was given to parthenogenetic reproduction. Females which developed from fertilized eggs were diploid, while males derived from unfertilized eggs were haploid. In males, the first and second divisions in germ cells were mitotic. They showed no evidence of abortive division. The two species propagate by haploid parthenogenesis. This is the first to be recorded for Scolytidae.

14271-68
THE BIOLOGY OF MONTANDONIELLA MORAGUESI PUTON, A PREDATOR OF GYNAIKOTHRIPS FICORUM MARCHAL, IN EGYPT (HEMIPTERA-HETEROPTERA: ANTHOCORIDAE).
M F S Tawfik A Nagui
Soc Entomol Egypte Bull 49:181-200
1966 420 EG9
Ficus nitida, Gynaikothrips ficorum, Montandoniella moraguesi, Predaceous insects.

14272-68
NOTES ON ENTOMOPHTHOROUS FUNGI ON SCIOMYZIDAE AND CULICIDAE (DIPTERA).
M H Teernstra-Eeken A Engel
J Invertebrate Pathol 9(3):431-432
Sep 1967 421 J826
Culicidae, Entomogenous fungi, Entomophthora, Sciomyzidae.

14273-68
A COMPARATIVE STUDY OF GASTRIC CAECA IN ADULT AND LARVAL STAGES OF BARK BEETLES (COLEOPTERA: SCOLYTIDAE).
J B Thomas
Entomol Soc Ontario Proc 97:71-90 REF
1966 420 ON8
Forest insects, Gastrointestinal system, Scolytidae.

14274-68
SWARMING BEHAVIOR OF MANSONIA PERTURBANS (WALKER).
P B Thompson
Amer Midland Natur 77(2):533-535 REF
Apr 1967 410 M58
Insect behavior, Mansonia perturbans, Sex behavior, Swarming.
Abstract: Swarms of Mansonia perturbans (Walker) were witnessed within an oak-maple forest near Madison, Wisconsin, at sunset on two evenings in late June, 1961. Swarming, mating, and feeding occurred simultaneously on both evenings. Mating took place in flight and was not observed outside of swarms.

14275-68
MITES FROM NOCTUID MOTHS.
A E Treat
Lepidopterists Soc J 21(3):169-179
1967 421 L554
Mites, Noctuidae, Parasitic insects.

14276-68
OBSERVATIONS ON HETEROTYLENCHUS AUTUMNALIS IN RELATION TO THE FACE FLY.
R E Treece T A Miller
J Econ Entomol 61(2):454-456
Apr 1968 421 J822
Heterotylenchus autumnalis, Musca autumnalis, Nematodes, Parasitism.
Abstract

14277-68
RELATIVE TOXICITY OF SOME INSECTICIDES TO THE HAIRY CATERPILLAR, DIACRISIA OBLIQUA (ARCTIDAE: LEPIDOPTERA).
B L Tripathi
Indian J Entomol 28(4):561-563
Dec 1966 420 IN23
Diacrisia obligua, Endosulfan, Insect pests, Insecticides, Jute, Larvae, Parathion, Toxicity.

14278-68
CITRUS FROM MEDITERRANEAN FRUIT FLY INFESTED COUNTRIES. ETHYLENE DIBROMIDE FUMIGATION.
Fed Regist 33(2):77
04 Jan 1968 L1.451
Ceratitis capitata, Citron, Ethylene dibromide, Fumigation, Quarantine.

14279-68
A CYTOPLASMIC POLYHEDROSIS OF THE CABBAGE LOOPER, TRICHOPLUSIA NI.
P V Vail T Miller I M Hall
J Invertebrate Pathol 9(3):436,439-441
Sep 1967 421 J826
Caterpillars, Insect diseases, Mortality, Polyhedroses, Trichoplusia ni.

14280-68
INSECT PREDATORS OF MUMMIFIED PEA APHIDS.
A G Waeeler J T Hayes J L Stephens
Can Entomol 100(2):221-222
Feb 1968 421 C16
Acyrthosiphon pisum, Aphididae, Praon, Predaceous insects.

14281-68
BIOLOGY OF THREE SPECIES OF LEIOPHRON (HYMENOPTERA: BRACONIDAE, DIRHINAE) PARASITIC ON MIRIDAE ON BROOM.
N Walcff
Roy Entomol Soc London Trans 119(6):187-213 BEE
27 Jun 1968 420 L84
Cytisus, Insect pests, Leiophron, Miridae, Parasitic insects.

14282-68
SPIDERS ASSOCIATED WITH THE FALL WEBWORM, HYPHANTRIA CUNEA (LEPIDOPTERA: ARCTIIDAE).
I C Warren K P Peck M Tadic
Kans Entomol Soc J 40(3):382-395 REE
Jul 1967 420 K13
Hyphantria cunea, Parasitic insects, Predaceous insects, Spiders.
Abstract

14283-68
PROTEIN SYNTHESIS IN THE TISSUES OF THE SILKWORM, BOMBYX MORI, INFECTED WITH NUCLEAR-POLYHEDROSIS VIRUS.
H Watanabe
J Invertebrate Pathol 9(3):428-429
Sep 1967 421 J826
Biochemistry, Bombyx mori, Insect diseases, Insect physiology, Polyhedroses, Proteins.
Abstract

14284-68
STUDIES ON THE GARDEN SYMPHYLAN, SCUTIGERELLA IMMACULATA (SYMPHYLA: SCUTIGERELLIDAE).
J S Waterhouse
Can Entomol 100 (2):172-178 BEF
Feb 1968 421 C16
Humidity, Mortality, Scutigerella immaculata, Soil moisture.
Abstract

14285-68
EFFECTS OF ARMY ANT ODORS ON LONGEVITY OF THEIR WORKERS (FORMICIDAE: ECITONINAE).
J F Watkins C W Rettenmeyer
Psyche 74(3):228-233 BEE
Sep 1967 421 P95
Formicidae, Insect physiology, Insect rearing, Longevity, Queen ant.

14286-68
RESPIRATION AND TRACHEAL VENTILATION IN LOCUSTS AND OTHER FLYING INSECTS.
T Weis-Fogh
J Exp Biol 47(3):561-587 BEF
Dec 1967 442.8 B77
Insect respiration, Odonata, Schistocerca gregaria, Trachea, Vespa crabro.
Abstract

14287-68
PARASITIC TROMBIDIID MITES ON DASYHELEA MUTABILIS (COQUILLETT) (DIPTERA: CERATOPOGONIDAE).
B H Whitsel R E Schoeppner
Entomol Soc Wash Proc 69(3):284-286
Sep 1967 420 W27
Dasyhelea mutabilis, Parasitism, Trombidiidae, Valgothrombium.

14288-68
THE BIOLOGY OF THE FIR TREE BORER, SEMANOTUS LITIGIOSUS (COLEOPTERA: CERAMBYCIDAE), IN CALIFORNIA.
B E Wickman
Can Entomol 100(2):208-220,MAP
Feb 1968 421 C16
Hibernation, Host specificity, Oviposition, Semanotus litigiosus.
Abstract

14289-68
SUMMARY OF PARASITE AND PREDATOR LIBERATIONS IN CANADA AND OF INSECT SHIPMENTS FROM CANADA IN 1966. SB975.C3.
G D Williamson
13 P. BELLEVILLE, ONTARIO
1966
Canada, Foreign trade, Host specificity, Insects, Parasitism, Predaceous insects.

14290-68
THE CONSERVATION AND AUGMENTATION OF NATURAL ENEMIES. IN: FAO SYMPOSIUM ON INTEGRATED PEST CONTROL, ROME, 1965. PROCEEDINGS. SB951. F62.
E Wilson
3:21-26
1966
Beneficial insects, Natural control (insects).

14291-68
LIFE HISTORY AND HABITS OF RHABDOPHAGA SP (DIPTERA: CECIDOMYIIDAE), A GALL MIDGE ATTACKING WILLOW IN MICHIGAN.
L F Wilson
Can Entomol 100(2):184-189
Feb 1968 421 C16
Cecidomyiidae, Eggs, Genetics, Hibernation, Parasites, Rhabdophaga.
Abstract

14292-68
A BIOASSAY OF THE PHEROMONE OF TROGODERMA GRANARIUM MALES AS AN ATTRACTANT FOR BOTH SEXES OF THE SPECIES.
U Yinon A Shulov
Entomol Exp Appl 10(3-4):453-462 REF
1967 421 ENB95
Attractants, Biological assay, Hormones, Pheromones, Trogoderma granarium.
Abstract

14293-68
PRELIMINARY EVALUATION OF HELIOTRINE AS A STERILITY AGENT FOR RACE FLY.
B M Zapanta C W Wingo
J Econ Entomol 61(1):330-331
Feb 1968 421 J822
Chemosterilants, Heliotrine, Musca autumnalis.

Genetics

14294-68
CROSSING OVER IN THE CHROMOSOMAL REGION DETERMING AMYLASE ISOZYMES IN DROSOPHILA MELANOGASTER.
E Bahn
Hereditas 58(1-2):1-12 REF
1967 442.8 H42
Amylases, Drosophila melanogaster, Electrophoresis, Enzymes, Genes, Insect genetics.
Abstract: A simple zymogram technigne allows separation of amylase components in homogenates of single individuals of Drosophila melanogaster. Recombination analysis has demonstrated spatial separation with a linkage intensity of the order of 1/13,000 (0.008 map units) of pairs of amylase genes each determining a single zone of amylolytic activity in the electrophoretic banding pattern.

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14295-68
SPONTANEOUS CROSSING OVER IN THE MALES OF DROSOPHILA ANANASSAE: TWO-WAY SELECTION FOR RECOMBINATION VALUES.
P G Kale
Jap J Genet 43(1):27-31 REF
Mar 1968 442.5 J27
Drosophila ananassae, Insect genetics.
Abstract

14296-68
THE MODE OF INHERITANCE OF DIELDRIN-RESISTANCE IN ANOPHELES (A.) PSEUDOPUNCTIPENNIS AND THE CROSSING OF POPULATIONS OF THIS SPECIES- FROM VARIOUS PARTS OF MEXICO.
A Martinez-Palacios G Davidson
Mosquito News 27(1):55-56 REF
Mar 1967 421 M85
Anopheles pseudopunctipennis, Dieldrin, Insect genetics, Insecticide resistant insects.
Abstract: Dieldrin-resistance in A. pseudopuncipennis is dependent on a single, partially-dominant, genetic factor. The results of crossing five populations of this species from different malaria areas of Mexico indicate that all the populations of this area belong to the same species.

14297-68
A NATURAL SEX LURE EXTRACTED FROM FEMALE PINK BOLLWORMS.
M T Gaye E A Entt
J Econ Entomol 55(3):419-421
Jun 1962 421 J822
Pectinophora gossypiella, Sex attractants.

14298-68
EVIDENCE FOR GENE HOMOLOGY OF TWO PEARL-EYED GENES IN TRIBOLIUM CASTANEUM AND TRIBOLIUM CONFUSUM.
C W Roberts D Jurileff
Can J Genet Cytol 10(1):139-142 REF
Mar 1968 443.8 C16
Eyes, Genes, Insect genetics, Tribolium castaneum, Tribolium confusum.
Abstract

14299-68
SELECTION FOR SUPERNUMERARY Y-CHROMOSOMES IN DERMESTES MACULATUS (COLEOPTERA: DERMESTIDAE).
D D Shaw
Can J Genet Cytol 10(1):54-62 REF
Mar 1968 443.8 C16
Chromosomes, Dermestes maculatus, Insect genetics.
Abstract

14300-68
THE STRUCTURE OF SALIVARY GLANDS AND GIANT CHROMOSOMES OF SOME CHIRONOMID LARVAE, ITS RELATION TOWARD THE WAY OF LIFE AND IMPORTANCE FOR THE DETERMINATION OF SPECIES.
V Tavcar
Biol Glas 19(1-2):11-17 REF
1966 510 Z1B
Chironomidae, Chromosomes, Insect behavior, Insect morphology, Larvae, Salivary glands.
Abstract: Larvae which build living spaces or construct nets have salivary glands which consist of big cells with big nuclei. Larvae that live a predatorious way of life, building neither living spaces nor nets have smaller salivary glands, and their tiny nuclei are of exceptional significance. Structure of chromosomes is not clear and they are unconvenient for the determination of species.

14301-68
RAPID ALLOCYCLIC CHANGES IN THE CENTRIC AND AN ARM SEGMENT OF THE X CHROMOSOME IN MEIOSIS OF MALE OMOPHOITA SUPERBA WEISE (COLEOPTERA, ALTICIDAE).
M Virkki
Hereditas 58(1-2):262-264 REF
1967 442.8 H42
Chromosomes, Chrysomelidae, Coleoptera, Insect genetics, Meiosis, Omophoita.

Medical Entomology

14302-68
ARBOVIRUS STUDIES IN BUSH BUSH FOREST, TRINIDAD, W. I., SEPTEMBER 1959-DECEMBER 1964. II. FIELD PROGRAM AND TECHNIQUES.
T H G Aitken C B Worth A R Jonkers R S Tikasingh W G Downs
Amer J Trop Med Hyg 17(2):237-252,MAP REF
Mar 1968 448.8 AM326
Arboviruses, Arthropoda, Birds, Chickens, Diptera, Ecology, Insect vectors, Rodents.

14303-68
EVALUATION OF INSECTICIDES AGAINST FOUR SPECIES OF ADULT MOSQUITOES IN THE PANAMA CANAL ZONE, 1967.
R M Altman M M Boreham
Mosquito News 27(4):506-508 REF
Dec 1967 421 M85
Aedes taeniorhynchus, Anopheles albimanus, Chemical control (insects), Culex pipiens quinquefasciatus, Fenthion, Insecticidal aerosols, Malathion, Mansonia, Naled.
Abstract: In December 1966 and January 1967 two series of tests were conducted at F7. Clayton, Canal Zone to determine the effectiveness of nonthermal aerosols of several insecticides to caged mosquitoes. Based on the percentage concentration, fenthion was more effective than naled which was in turn more effective than malathion.

14304-68
PROBLEMS IN THE CULTIVATION OF SOME PARASITIC PROTOZOA.
A Bishop
Advances Parasitol 5:93-138 REF
1967 436.8 AD9
Culture media, Insect vectors, Protozoa.
Includes biology in insect vectors.

14305-68
DEVELOPMENT OF RICKETTSIA PROWAZEKI IN CERTAIN SPECIES OF IXODID TICKS.
W Burgdorfer R A Ormsbee
Acta Virol 12(1):36-40
Jan 1968 448.3 AC85
Dermacentor andersoni, Hyalomma anatolicum excavatum, Hyalomma dromedarii, Ixodidae, Rickettsia prowazeki.

14306-68
OBSERVATIONS ON TOXORHYNCHITES SPLENDENS (WIEDEMANN) (DIPTERA: CULICIDAE) IN SINGAPORE.
K L Chan
Mosquito News 28(1):91-95 REF
Mar 1968 421 M85
Aedes, Biological control (insects), Insect physiology, Predaceous insects, Toxorhynchites splendens.

14307-68
SIMIAN MALARIAS IN MAN; FACTS, IMPLICATIONS, AND PREDICTIONS.
G R Coatney
Amer J Trop Med Hyg 17(2):147-155 REF
Mar 1968 448.8 AM326
Anopheles, Human diseases, Insect vectors, Malaria, Monkeys, Plasmodium, Zoonoses.

14308-68
STUDIES ON THE TRANSMISSION OF SIMIAN MALARIA. III. INFECTION AND TRANSMISSION OF PLASMODIUM COATNEYI WITH ANOPHELES FREEBORNI AND A. BALABACENSIS BALABACENSIS MOSQUITOES.
W E Collins P G Contacos E G Ginn J R Reid
J Parasitol 53(6):1130-1134
Dec 1967 448.8 J824
Anopheles balabacensis, Anopheles freeborni, Insect vectors, Monkeys, Plasmodium.

14309-68
STUDIES OF TENSAW VIRUS IN ANOPHELES QUADRIMACULATUS, A. ALBIMANUS AND A. MACULATUS.
W E Collins A J Harrison
Mosquito News 27(1):1-5 REF
Mar 1967 421 M85

Anopheles albimanus, Anopheles macnlatus,
Anopheles quadrimaculatus, Arboviruses, Insect vectors,
Tensaw virns.
Abstract: Mosquitces were iufected with Tensaw virns using
the membrane feediug techuique. Trausmissiou of Teusaw vi-
rus was obtaiued by the feeding of A. quadrimaculatus and
A. albimanus cu snckling mice after 12 to 14 days of ex-
trinsic incubation. The amouut of virus iuitially iugested
did uct appear to affect the trausmissiou rate.

14310-66
TRANSMISSICN CF PLASMCDIUM FIELDI BY ANOPHELES MACULATUS,
A. STEPHENSI, AND A. FALABACENSIS FALABACENSIS.
W E Ccllins P G Contacos E G Guinn J R Heid
J Parasitol 54(2):376
Apr 1966 448.8 J824
Anopheles falabaceusis, Anopheles maculatns,
Anopheles stephensi, Iusect vectors, Monkeys,
Plasmcdium fieldi.

14311-66
THE EFFECT CF GAMMA IRADIATION ON REPRODUCTION AND LIFE
SPAN CF THE MCSQUITC CULEX TARSALIS COQUILLETT.
D I Darrow
Mosquitc News 28(1):21-24 REF
Mar 1966 421 M85
Culex tarsalis, Gamma rays, Iongevity, Reproduction.

14312-66
NEW CHEMICAL ATTRACTANTS FOR YELLOW JACKETS (VESPULA SPP.).
H G Davis T P McGovern G W Eddy T E Nelson K M R Rertun
J Ecor Entcmol 61(2):459-462
Apr 1966 421 J822
Attractants, Vespula.
102 syuthetic orgauic compouuds
Abstract

14313-66
RESPONSES CF AEDES AEGYPTI (L.) FROM ALABAMA, GEORGIA
AND SCUTH CAROLINA TC DDT, DIELDRIN, AND MALATHION.
A D Flynu H F Schcof
Mosquitc News 27(4):509-512 REF
Dec 1967 421 M85
Aedes aegypti, Chemical coutrol (iusects), Dieldrin, DDt,
Insecticide resistant insects, Malathiou.
Abstract: Cf the straius frcm Alabama, two were resistant
tc DDT (adults), cue slightly resistant to dieldriu
(adults), aud ncne resistant to malathion. From Georgia,
all strains of the adult stage were resistant to DDT, oue
strain (Albany, adult aud larval stages) to dieldriu, and
uoue to malathicn. Strains from South Carolina were
susceptible to all of these toxicauts.

14314-66
RESPONSES CF MOSQUITOES AND STABLE FLIES TO A MAN IN A
LIGHT-WEIGHT BUBBLE DIVING SUIT.
R K Gcuck I R Gilbert
J Econ Entcmol 55(3):386-392, TABS.
Juu 1962 421 J822
Culicidae, Human eugineering, Humans, Stomoxys calcitraus.

14315-66
EVCLUTICNARY TRENDS IN MAMMALIAN TRYPANOSOMES.
C A Ecare
Advauces Parasitol 5:47-91,MAP REF
1967 436.8 AD9
Animal diseases, Evolntiou, Human diseases, Iusect vectors,
Mammals, Trypauosomatidae.
Iucludes iusect vectcrs.

14316-66
SEASCNAL ACTIVITY CF MOSQUITC PREDATORS IN WOODLAND POOLS IN
CNTARIC.
B G James
Mosquitc News 27(4):453-457 REF
Dec 1967 421 M85
Aedes, Aquatic iusects, Coleoptera, Forests,
Natural ccutrcl (iusects), Ponds, Predaceous iusects.

14317-66
ARBOVIRUS STUDIES IN BUSH BUSH FOREST, TRINIDAD, W. I.
SEPTEMBER 1959-DECEMBER 1964. V. VIRUS ISOLATIONS.
A R Jcnkers L Spence W G Downs T R G Aitkeu E S Tikasingh
Amer J Trcp Med Eyg 17(2):276-284 REF
Mar 1968 448.8 AM326
Arboviruses, Arthrcpoda, Culicidae, Rodeuts,
Serological tests, Virology.

14318-68
ULV AERIAL INSECTICIDE APPLICATION FOR ADULT MOSQUITO
CONTROL IN KENTUCKY.
F W Knapp C R Gayle
Mosquito News 27(4):478-482 REF
Dec 1967 421 M85
Aerial sprayiug, Carbamates, Chemical coutrol (iusects),
Culicidae, Fenthiou, Iusecticides,
Isopropoxyphenyl methylcarbamate, o-, Malathion, Naled,
Organophosphorus compounds.

14319-68
EFFECTIVENESS OF SOME NEW INSECTICIDES ON VARIOUS TYPES OF
SURFACES AND IN CLAY-LINED EXPERIMENTAL RUTS AGAINST
ANOPRELES QUADRIMACULATUS.
W Mathis H F Schoof
Mosquito News 28(1):16-20 REF
Mar 1968 421 M85
Auopheles quadrimacnlatus, Biological assay,
Chemical control (insects), Dieldrin,
Iusecticide resistaut insects, Insecticides,
Surface chemistry.

14320-68
THE MUDMINNOW UMBRA LIMI (KIRT.). A POSSIBLE MOSQUITO
CONTROL AGENT IN SEMI-PERMANENT POOLS.
M G Maw
Mosquito News 28(1):120 REF
Mar 1968 421 MR5
Biological control (iusects), Culicidae, Fish.
The mudmiuuow, Umbra limi, feeds on insects.

14321-68
ULTRA-LOW VOLUME NONTHERMAL AEROSOLS OF MALATHION AND NALED
FOR ADULT MOSQUITO CONTROL.
G A Mount C S Lofgren N W Pierce C N Husman
Mosqnito News 28(1):99-103 REF
Mar 1968 421 M85
Aedes taeuiorhyuchus, Aerosols, Chemical coutrol (insects),
Malathion, Naled.
Abstract: A nonthermal generator (Curtis Model 55,000)
was modified to disperse ultra-low volume malathion aud
naled. At all doses tested, particles of malathion haviug
mmd's of 6 to 10 microns were more effective thau particles
of 11 to 22 microus. ULV malathiou at least as effective
as high volume. ULV naled was more effective than high
volume.

14322-68
NEW INSECTICIDES AS NONTHERMAL AEROSOLS FOR CONTROL OF ADULT
MOSQUITOES.
G A Mouut C S Lofgren
Mosquito News 27(4):470-473 REF
Dec 1967 421 M85
Aedes taeuiorhyuchus, Auopheles guadrimaculatus, Carbamates,
Chemical control (insects), Culex pipiens quinquefasciatus,
Iusecticidal aerosols, Organophosphorus componuds.

14323-68
AERIAL FOGGING WITH RAY 39007 FOR THE CONTROL OF ADULT
AEDES SOLLICITANS (WALKER) AND AEDES TAENIORHYNCHUS
(WIEDEMANN).
G A Mount C S Lofgren J Salmela
Mosquito News 27(4):524-525 REF
Dec 1967 421 M85
Aedes sollicitaus, Aedes taeniorhynchns, Aerial spraying,
Chemical control (insects), Iusecticidal aerosols,
Isopropoxypheuyl methylcarbamate, o-.

14324-68
LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITOE-BORNE
DISEASES.
R Sollers-Riedel
Mosquito News 27(4):537-548 REF
Dec 1967 421 M85
Bibliography, Chemical control (iusects), Culicidae,
Insect taxouomy, Medical eutomology.

14325-68
ERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE
DISEASES.
H Sollers-Riedel
Mosquito News 28(1):128-140 REF
Mar 1968 421 M85
Bibliography, Riolcgical control (insects),
Chemical coutrol (iusects), Culicidae, Equipmeut,
Insect biology, Iusect ecology, Iusect geuetics,
Iusect morphology, Iusect vectors, Medical entomology,
Toxicology.

1D 14326-68

14326-68
CONTROL OF MOSQUITO ADULTS AND LARVAE WITH ULTRA-LOW VOLUME AERIAL APPLICATIONS OF BAYGON AND BAYGON-BAYTEX MIXTURE.
L F Stevens B P Stroud
Mosquito News 27(4):482-485 DEC
Dec 1967 421 M85
Aedes sollicitans, Aedes stimulans, Aerial spraying, Carbamates, Chemical control (insects), Culex restuans, Fenthion, Insecticides, Isopropoxyphenyl methylcarbamate, o-, Larvicides, Organophosphorus compounds.

14327-68
THE LARVICIDAL ACTIVITY OF SEVERAL LIQUID DETERGENTS AND QUATERNARY AMMONIUM COMPOUNDS.
R T Taylor B F Schoof
Mosquito News 27(4):486-487
Dec 1967 421 M85
Aedes aegypti, Aedes triseriatus, Anopheles quadrimaculatus, Chemical control (insects), Culex pipiens quinquefasciatus, Detergents, Larvicides, Quaternary ammonium compounds.

14328-68
SIMULATED FIELD EVALUATION OF PROMISING INSECTICIDES FOR USE AGAINST AEDES AEGYPTI.
R T Taylor
Mosquito News 28(1):11-16 MAR
Mar 1968 421 M85
Aedes aegypti, Chemical control (insects), Insecticides, Larvicides.
Abstract: Eleven compounds were evaluated under simulated field conditions to determine their relative residual life as larvicides and adulticides against Ae. aegypti.

20 CROP PROTECTION

14329-68
ENTOMOLOGISTS EXCHANGE '59 RESEARCH RESULTS.
Agr Chem 15(1):38-40
Jan 1960 381 AG8
Anthonomus grandis, Cochliomyia hominivorax, Conmaphcs, DDT, Musca domestica, Ronnel, Toxaphene.

14330-68
APHIDS AND MILDEW. TWO ECONOMICALLY IMPORTANT PESTS OF GRAIN IN SOUTHERN SWEDEN 1967. (SW)
K Andersson
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 32(1):2-8
1968 464.9 SW3V
Aphididae, Fungus diseases (plants), Grain, Insect pests.

14331-68
SOME NOTES ON THE STUDY OF BARK FUNGI.
J R R Garner
Can J Bot 45(4):540-541
Apr 1967 470 C16C
Bark, Fungi, Populus tremuloides.

Diseases

14332-68
CHANGE IN CHLOROPLAST PROTEINS OF THE RICE PLANT INFECTED BY THE BLAST FUNGUS, PIRICULARIA ORYZAE. IN: MIROCHA, C. J., AND URITANI, I., ED. THE DYNAMIC ROLE OF MOLECULAR CONSTITUENTS IN PLANT-PARASITE INTERACTION. PROCEEDINGS, CONFERENCE HELD MAY 15-21, 1966, GAMAGORI, JAPAN.
SB611.C6.
T Akazawa L Ramakrishnan
329-341 REF AMERICAN PHYTOPATHOLOGICAL SOCIETY
1967
Blast (rice), Fungus diseases (plants), Piricularia oryzae, Proteins, Rice.

14333-68
AMERICAN PHYTOPATHOLOGICAL SOCIETY. POTOMAC DIVISION. ANNUAL MEETING, 1967. REPORT AND ABSTRACTS.
Phytopathology 57(7):644-649
Jul 1967 464.8 P56
Conferences, Plant diseases.

14334-68
INHERITANCE OF RESISTANCE TO VENTURIA INAEQUALIS IN CERTAIN CRAB APPLE CLONES. (ABSTRACT).
H S Bagga D M Boone
Phytopathology 57(8):802
Aug 1967 464.8 P56
Crabapples, Crop varieties, Fungus diseases (plants), Plant disease resistance, Venturia inaequalis.

14335-68
PLANT VIRUS ANTIGEN: ANTIBODY REACTIONS IN DENSITY GRADIENT CENTRIFUGATION AND IN ELECTRON MICROSCOPY. (ABSTRACT).
E M Ball M K Brakke
Phytopathology 57(8):802
Aug 1967 464.8 P56
Antibodies, Antigens, Centrifugation, Electron microscopy, Plants, Virus diseases (plants).

14336-68
LEAFHOPPER TRANSMISSION OF THE OAT BLUE DWARF VIRUS EXTRACTED FROM OATS OR BARLEY. (ABSTRACT).
E E Banttari
Phytopathology 57(8):802
Aug 1967 464.8 P56
Blue dwarf (oats), Insect vectors, Macrosteles fascifrons, Oats, Plant disease transmission, Virus diseases (plants).

14337-66
THE RESPIRATION OF SCLEROTIA OF SCLEROTIUM ROLFSII.
M D Rand C I Fergus
Mycopatbol Mycol Appl 33(2):167-178 REF
13 Nov 1967 450 M994
Aging, Hydrogen-ion concentration, Plant respiration,
Sclerotium rolfsii, Temperature.

14338-66
NUCLEAR ASSOCIATION IN PUCCINIA CORONATA F. SP. AVENAE.
(ABSTRACT).
P Bartos G Fleischmann G J Greer D J Samhroski
Phytopathology 57(8):803
Aug 1967 464.8 P56
Cell division, Cell nucleus, Crown rust (oats),
Fungus diseases (plants), Oats, Puccinia coronata avenae.

14339-66
CHARACTERISTICS OF THE CELLULASE SYSTEM PRODUCED BY
SCLEROTIUM ROLFSII. (ABSTRACT).
D E Bateman
Phytopathology 57(8):803
Aug 1967 464.8 P56
Beans, Cellulase, Fungus diseases (plants),
Sclerotium rolfsii.

14340-68
RESISTATORY RESPONSE OF RADISH VARIETIES RESISTANT AND
SUSCEPTIBLE TO VASCULAR INFECTION BY FUSARIUM OXYSPORUM
F. CONGLUTINANS.
C H Beckman
Phytopathology 57(7):699-702 REF
Jul 1967 464.8 P56
Fungus diseases (plants), Fusarium oxysporum,
Plant disease resistance, Plant respiration, Radishes,
Vascular system (plants), Wilt (radishes).
Abstract

14341-66
FORMATION OF GOSSYPOL IN INFECTED OR CHEMICALLY IRRITATED
TISSUES OF GOSSYPIUM SPECIES.
A A Bell
Phytopathology 57(7):759-764 REF
Jul 1967 464.8 P56
Antimetabolites, Chromatography, Cotton,
Fungus diseases (plants), Gossypol, Plant disease resistance,
Plant extracts, Puccinia sorghi, Rhizopus stolonifer,
Ulromyces phaseoli, Verticillium albo-atrum.
Abstract

14342-66
AN EXPOSURE CHAMBER FOR FORESTRY AIR POLLUTION STUDIES.
(ABSTRACT).
C E Berry
Phytopathology 57(8):804
Aug 1967 464.8 P56
Air pollution, Forest conservation, Greenhouses, Ozone,
Pinus strobus.

14343-66
ACCUMULATION OF PHENOLS IN SOYBEAN AFTER INOCULATION WITH
FUNGI NONPATHOGENIC TO SOYBEAN. (ABSTRACT).
W I Fiehn J Knc E B Williams
Phytopathology 57(8):804
Aug 1967 464.8 P56
Fungi, Helminthosporium carbonum, Phenols, Soybeans.

14344-68
NUMERICAL ANALYSIS OF THE GENUS TRICHODORUS. (ABSTRACT).
G W Bird
Phytopathology 57(8):804
Aug 1967 464.8 P56
Mathematical analysis, Plant nematodes, Trichodorus.

14345-66
SOIL TRANSMISSION OF SUGARCANE MOSAIC VIRUS IN SORGHUM.
(ABSTRACT).
W E Bond T P Pirone
Phytopathology 57(8):804-805
Aug 1967 464.8 P56
Mosaic (sugarcane), Plant disease transmission,
Soil-borne plant diseases, Sorghum, Sugarcane,
Virus diseases (plants).

14346-66
THE RELATION OF GROWTH REGULATORS TO THE DEVELOPMENT OF
SYMPTOMS AND THE EXPRESSION OF STEM RESISTANCE IN WHITE PINE
INFECTED WITH BLISTER RUST.
H G Beyer
45(4):501-513
Apr 1967
Benzimidazole, Blister rust (pinus), Gibberellic acid,
Indoleacetic acid, Plant disease resistance, Plant galls,
Plant regulators, Seedlings.
Abstract: The application of the growth regulators indole-
acetic acid and gibberellic acid of stems of white pine
seedlings produced many symptoms characteristic of the di-
sease caused by blister rust fungus, thus suggesting their
possible involement in gall formation. When benzimidizole
compound was applied, a wound peridem was initiated in seed-
lings infected with blister rust, but not in healthy ones.

14347-68
THE STRUCTURE-ACTIVITY RELATIONSHIPS OF A NEW GROUP OF
PYRIDINE ALKANE AND CARBINOL FUNGICIDES. (ABSTRACT).
I E Brown J W Whaley H M Taylor E M Van Beyningen
Phytopathology 57(8):805-806
Aug 1967 464.8 P56
Carbinol, Erysiphe polygoni, Fungicides,
Fungus diseases (plants), Grasses, Paraffins,
Pyridine compounds.

14348-68
EFFECTS OF LIGHT ON SPORULATION OF CERCOSPORA BETICOLA.
L Calpouzos G F Stallknecht
Phytopathology 57(7):679-681
Jul 1967 464.8 P56
Cercospora beticola, Light.
Abstract

14349-68
PHYTOPTHORA LEAF FALL AND POD ROT OF HEVEA BRASILIENSIS IN
THAILAND.
K R Chee J M F Greenwood
Fao Plant Protect Bull 16(1):1-5 MAP, REF
Feb 1968 421 P692
Fungus diseases (plants), Hevea brasiliensis,
Phytophthora meadii, Phytophthora palmivora.
Abstract: Leaf fall was observed throughout the rubber-
growing areas of Thailand, except in the southeast region.
Leaf fall and pod rot were most severe in the northeast
provinces, moderate in the southwest, and slight in the
west. Strains of the causal fungus fell into two groups.
Their identity has not been established, but most isolates
can probably be assigned to Phytophthora meadii, and the
remainder, of much rarer occurrence, to P. palmivora.

14350-68
GREENHOUSE EVALUATION OF FUNGICIDES FOR CONTROL OF RICE
BLAST DISEASE. (ABSTRACT).
B S Chow
Phytopathology 57(8):806
Aug 1967 464.8 P56
Blast (rice), Fungicides, Fungus diseases (plants),
Greenhouses, Piricularia oryzae, Rice.

14351-68
TRISTEZA STRAIN COMPARISONS IN FLORIDA. (ABSTRACT).
M Cohen
Phytopathology 57(8):807
Aug 1967 464.8 P56
Citrus, Grapefruit, Tristeza (citrus).

14352-68
OAK WILT INCIDENCE RELATED TO SITE PRODUCTIVITY IN
HAMPSHIRE COUNTY, W. VA. (ABSTRACT).
W L Cones R P True
Phytopathology 57(8):807
Aug 1967 464.8 P56
Fungus diseases (plants), Quercus, Wilt (quercus).

14353-68
THE EFFECT OF XANTHOMONAS VESICATORIA ON PERMEABILITY
IN RESISTANT AND SUSCEPTIBLE PEPPER LEAVES. (ABSTRACT).
A A Cook R E Stall
Phytopathology 57(8):807
Aug 1967 464.8 P56
Bacterial diseases (plants), Bush redpeppers (vegetable),
Plant disease resistance, Xanthomonas vesicatoria.

14354-68
OCCURRENCE OF RHIZOCTONIA SPP. IN SEEDS OF SMALL GRAINS
AND OTHER PLANTS.
W P Crosier J J Natti D C Crosier
Phytopathology 57(8):808
Aug 1967 464.8 P56
Field crops, Fungus diseases (plants), Grain,
Ornamental plants, Rhizoctonia, Seed treatment, Vegetables.

20 14355-68

14355-68
CDMPLEMENTATICN IN DIKARYONS AND DIPLOIDS. (ABSTRACT).
P B Day
Phytopathology 57(8):808
Aug 1967 464.8 P56
Cell divisicn, Coprinus lagopus, Enzymes, Fungi, Mutation, Parasitic plants, Plant biochemistry, Ustilago maydis.

14356-68
ADDITIONAL FUNGI ASSOCIATED WITH AMERICAN BEECH IN NEW YORK.
B C De Groot
Mycopathol Mycol Appl 32(4):356-359
13 Sep 1967 45D M594
Fagus grandifolia, Fungus diseases (plants).

14357-68
THE EFFECT OF VISIBLE AND NEAR-VISIBLE RADIATION ON THE SPORULATION OF HELMINTHOSPORIUM VAGANS. (ABSTRACT).
R I Dearl E S Elliott
Phytopathology 57(8):808
Aug 1967 464.8 P56
Fungus diseases (plants), Helminthosporium vagans, Light, Poa pratensis, Ultraviolet rays.

14358-68
INCORPORATION OF H3- AND C14-LABELED OROTIC ACID INTO RIBONUCLEIC ACID OF ISOLATED BEAN RUST MYCELIUM. (ABSTRACT).
H M Dekhuijzen H Singh R C Staples
Phytopathology 57(8):808
Aug 1967 464.8 P56
Beans, Carbon isotopes, Fungus diseases (plants), Orotic acid, Radioactive tracers, Ribonucleic acid, Rust (beans), Tritium, Uromyces phaseoli.

14359-68
SOME PROPERTIES OF HYPHAE ISOLATED FROM BEAN LEAVES INFECTED WITH BEAN RUST FUNGUS.
H M Dekhuijzen H Singh R C Staples
Boyce Thompson Inst Contrib 23(11):367-372 REF
Jul 1967 451 E69
Beans, Fungus diseases (plants), Rust (beans), Uromyces phaseoli.

14360-68
DECLINE OF RED CLOVER PLANTS INFECTED WITH RED CLOVER VEIN MOSAIC VIRUS AND RDSARIUM SPECIES. (ABSTRACT).
S J Denis E S Elliott
Phytopathology 57(8):808-809
Aug 1967 464.8 P56
Fungus diseases (plants), Fusarium, Red clover, Vein mosaic (red clover), Virus diseases (plants).

14361-68
SUBTLE EFFECTS OF FREEZING ON THE SENSITIVITY OF TOBACCO MOSAIC VIRUS TO ALKALINE DEGRADATION. (ABSTRACT).
P R Desjardins T C Dieuer
Phytopathology 57(8):809
Aug 1967 464.8 P56
Alkalies, Freezing, Hydrogen-ion concentration, Mosaic (tobacco), Tobacco, Virus diseases (plants).

14362-68
EFFECT OF TEMPERATURE ON DEVELOPMENT OF LOCAL LESIONS ON TOBACCO LEAVES INOCULATED WITH TOBACCO STREAK VIRUS. (ABSTRACT).
S Diachun
Phytopathology 57(8):809
Aug 1967 464.8 P56
Streak (tobacco), Temperature, Tobacco, Virus diseases (plants).

14363-68
THE EFFECT OF INOCULUM POTENTIAL ON THE RESPONSE OF MUSKMELON VARIETIES TO FUSARIUM OXYSPORUM F. SP. MELONIS. (ABSTRACT).
D R Douglas
Phytopathology 57(8):809
Aug 1967 464.8 P56
Fungus diseases (plants), Fusarium oxysporum, Muskmelons, Wilt (muskmelons).

14364-68
DORMANT SEASON SUSCEPTIBILITY OF PEACH TO BACTERIAL CANKER NOT RELATED TO MOVEMENT OF PSEUDOMONAS SYRINGAE. (ABSTRACT).
W M Dowler F D King
Phytopathology 57(8):809-810
Aug 1967 464.8 P56
Bacterial diseases (plants), Canker (peaches), Peaches, Plant disease resistance, Pseudomonas syringae.

14365-68
RECOVERY OF EASTERN WHITE PINE FOLLOWING REDUCTION IN LEVELS OF AMBIENT AIR POLLUTION. (ABSTRACT).
D B Drummond F A Wood
Phytopathology 57(8):810
Aug 1967 464.8 P56
Air pollution, Pinus strobus.

14366-68
GERMINATION OF MICROSCLEROTIA OF VERTICILLIUM ALBO-ATRUM IN SOIL. (ABSTRACT).
D A Emmatty B J Green
Phytopathology 57(8):810-811
Aug 1967 464.8 P56
Fungus diseases (plants), Soil fungi, Spore germination, Verticillium albo-atrum.

14367-68
DREPOSPORE PRODUCTION OF FIVE RACES OF PUCCINIA RECONDITA ROB. EX DESM. AS AFFECTED BY LIGHT AND TEMPERATURE.
Z Eyal J L Peterson
Can J Bot 45(4):537-540
Apr 1967 470 C16C
Fungus diseases (plants), Leaf rust (wheat), Light, Puccinia recondita, Temperature, Wheat.

14368-68
BACTERIAL STIMULATION OF CHLAMYDOSPORE PRODUCTION IN FUSARIUM SOLANI F. SP. PHASEOLI. (ABSTRACT).
E J Ford E E Trujillo
Phytopathology 57(8):811
Aug 1967 464.8 P56
Bacteria, Fungus diseases (plants), Fusarium solani, Plant physiology.

14369-68
STUDIES ON POTASSIUM NUTRITION OF PLANTS. II. SOME EFFECTS OF POTASSIUM DEFICIENCY ON THE ORGANIC ACIDS OF LEAVES.
G G Freeman
J Sci Food Agr 18(12):569-576 REF
Dec 1967 382 S012
Acids, Beets, Cabbage, Leaves, Lettuce, Lolium multiflorum, Plant nutritional deficiencies, Potassium, Potatoes.

14370-68
ETHANOL SUPPRESSES UPTAKE AND METABOLISM OF GLUCOSE BY ARMILLARIA MELLEA. (ABSTRACT).
M C Garraway
Phytopathology 57(8):812
Aug 1967 464.8 P56
Armillaria mellea, Ethyl alcohol, Fungus diseases (plants), Glucose, Metabolism.

14371-68
COMPOSITIONS AND METHODS FOR CONTROLLING FUNGI. PATENT 3,378,438.
K Gatzi
Us Patent Office Offic Gaz 849(3):782-783
16 Apr 1968 156.65 OF2
Amines, Chemical control (plant diseases), Fungicides, Patents.

14372-68
EFFECTS OF DRYING ON THE VIABILTY OF GERMINATED SPORES OF BOTRYTIS CINEREA, CERCOSPORA MUSAE, AND MONILINIA FRUCTICOLA.
B M Good P G M Zathureczky
Phytopathology 57(7):719-722
Jul 1967 464.8 P56
Botrytis cinerea, Cercospora musae, Culture media, Drying, Monilinia fructicola, Mortality, Spore germination. Abstract

14373-68
RELATIONSHIP OF ROOT KNOT NEMATODES TO PATHOGENIC VARIABILITY IN FUSARIUM OXYSPORUM F. SP. LYCOPERSICI.
M J Goode J M McGuire
Phytopathology 57(8):812
Aug 1967 464.8 P56
Fungus diseases (plants), Fusarium oxysporum, Meloidogyne incognita, Plant nematodes, Tomatoes.

14374-68
A POSSIBLE BIOCHEMICAL BASIS FOR THE HYPERSENSITIVE REACTION INDUCED IN PLANTS BY PATHOGENIC BACTERIA. (ABSTRACT).
B N Goodman
Phytopathology 57(8):812-813
Aug 1967 464.8 P56

Bacterial diseases (plants), Chemicals, Hypersensitivity, Necrosis, Plant Biochemistry, Plants, Tobacco.

14375-68
A QUANTITATIVE METHOD FOR THE ISOLATION OF PYTHIUM SPECIES FROM SOIL USING SWEET CORN. (ABSTRACT).
B W Goth J F Dorway F J Schick
Phytopathology 57(8):813
Aug 1967 464.8 P56
Fungus diseases (plants), Plant quarantine, Pythium, Root rot (beans), Soil fungi, Sweet corn, Sweetcorn.

14376-68
A SEROLOGICAL COMPARISON OF RACES 1 AND 2 OF PSEUDOMONAS PHASEOLICOLA. (ABSTRACT).
J W Guthrie
Phytopathology 57(8):813
Aug 1967 464.8 P56
Bacterial diseases (plants), Pseudomonas phaseolicola, Serological tests.

14377-68
INTRACELLULAR AND EXTRACELLULAR ENZYMES FROM PHYTOPHTHORA CINNAMOMI. (ABSTRACT).
R Ball G A Zentmyer
Phytopathology 57(8):813
Aug 1967 464.8 P56
Cells, Culture media, Enzymes, Fungus diseases (plants), Phytophthora cinnamomi.

14378-68
BREAKDOWN OF PECTIN AT PH VALUES ENCOUNTERED IN FUSARIUM SOLANI F. SP. CUCURBITAE-INFECTED SQUASH HYPOCOTYLS. (ABSTRACT).
J G Bancock
Phytopathology 57(8):813
Aug 1967 464.8 P56
Fungus diseases (plants), Fusarium solani, Hydrogen-ion concentration, Pectins, Squash.

14379-68
STUDIES ON A NEW DEFECTIVE STRAIN OF TOBACCO MOSAIC VIRUS. (ABSTRACT).
V Hariharasubramanian A Siegel
Phytopathology 57(8):814
Aug 1967 464.8 P56
Mosaic (tobacco), Tobacco, Virus diseases (plants).

14380-68
SEED EXUDATE IN RELATION TO TEMPERATURE AND PREEMERGENCE DAMPING-OFF. (ABSTRACT).
D S Raymer
Phytopathology 57(6):814
Aug 1967 464.8 P56
Cotton, Damping-off (cotton), Exudates, Seed germination, Temperature.

14381-68
DOTHISTROMA NEEDLE BLIGHT OF PINES. 6. FIELD CONTROL WITH TIMED COPPER SPRAYS.
D Rocking
Arusha Trop Pesticides Res Inst Misc Rep 572,11 P
Jul 1966 423.52 G7522
Copper compounds, Fungus diseases (plants), Needle blight (pinus), Pinus radiata, Spraying, Tree diseases.

14382-68
PLANT DISEASE PITFALLS FOR HIGH YIELDING WHEATS IN INDIA.
C S Holton
Indian Phytopathol 20(3):183-188
Sep 1967 464.8 IN2
Crop yields, Leaf spot (wheat), Plant diseases, Powdery mildew (wheat), Root rot (wheat), Stripe rust (grain), Wheat.

14383-68
INHERITANCE OF MATURE PLANT RESISTANCE TO RUST IN CORN. (ABSTRACT).
A L Scoker
Phytopathology 57(8):815
Aug 1967 464.8 P56
Corn, Fungus diseases (plants), Plant disease resistance, Plant genetics, Rust (corn).

14384-68
EFFECT OF ETHANOL FIXATION ON POTATO VIRUS X PARTICLES. (ABSTRACT).
W J Scoker
Phytopathology 57(8):815
Aug 1967 464.8 P56
Ethyl alcohol, Potatoes, Virus diseases (plants), Virus x (potatoes).

14385-68
EFFECT OF TOBACCO ETCH VIRUS ON PHOTOSYNTHESIS. (ABSTRACT).
D L Hopkins R E Hampton
Phytopathology 57(8):815
Aug 1967 464.8 P56
Etch (tobacco), Photosynthesis, Tobacco, Virus diseases (plants).

14386-68
PLANT CELLULAR RESPONSES TO NEMATODE EXTRACTS. (ABSTRACT).
R K Rowell R S Hussey
Phytopathology 57(8):815
Aug 1967 464.8 P56
Animal extracts, Cells, Ditylenchus dipsaci, Peas, Plant nematodes.

14387-68
TELIOSPORE FORMATION BY PUCCINIA RECONDITA F. SP. TRITICI ON SEEDLING WHEAT PLANTS.
A O Jackson H C Young
Phytopathology 57(7):793-794
Jul 1967 464.8 P56
Leaf rust (wheat), Puccinia recondita.

14388-68
THE SPECIES UREDINALES ON BROMUS.
M J Kaufmann
Mycopathol Mycol Appl 32(4):249-261
13 Sep 1967 450 M994
Bromus, Fungus diseases (plants), Puccinia, Rust (Bromus), Uredinales, Uredo, Uromyces.

14389-68
METHOD OF PROTECTING PLANTS WITH 2,1,3-BENZODITHIADIAZOLE COMPOUNDS. PATENT 3,382,146.
R Koopman A Temple
Us Patent Office Offic Gaz 850(1):240-241
07 May 1968 156.65 OF2
Benzodithiadiazoles, Fungicides, Patents.

14390-68
EFFECT OF CARBON SOURCES ON THE GROWTH OF PYTHIUM APHANIDERMATUM (EDSON) FITZ.
M Kumar R K Grover
Indian Phytopathol 20(3):189-195 REF
Sep 1967 464.8 IN2
Carbon compounds, Fungus diseases (plants), Hydrogen-ion concentration, Plant physiology, Pythium aphanidermatum.

14391-68
BEHAVIOR OF CHLAMYDOSPORES AND ENDOCONDIA OF THIELAVIOPSIS BASICOLA IN NONSTERILIZED SOIL.
H G Linderman T A Toussoun
Phytopathology 57(7):729-731
Jul 1967 464.8 P56
Culture media, Soil moisture, Spore germination, Thielaviopsis basicola.
Abstract

14392-68
INHIBITION OF PHENOL OXIDATION BY ERWINIA CAROTOVORA IN POTATO TUBER TISSUE AND ITS SIGNIFICANCE IN DISEASE RESISTANCE.
L Lovrekovich R Lovrekovich M A Stahmann
Phytopathology 57(7):737-742
Jul 1967 464.8 P56
Bacterial soft rot (potatoes), Enzymes, Erwinia carotovora, Phenols, Plant disease resistance, Potatoes.
Abstract

14393-68
THE CYTOLOGY OF INFECTION STRUCTURE DEVELOPMENT IN UREDIOSPORE GERM TUBES OF UROMYCES PHASEOLI VAR. TYPICA (PERS.) WINT.
H Maheshwari A C Hildebrandt P J Allen
Can J Bot 45(4):447-450 REF
Apr 1967 470 C16C
Beans, Feulgen test, Fungus diseases (plants), Plant cytology, Spore germination, Uredinales, Uromyces phaseoli typica.

14394-68
THERMAL STABILITY OF STEM RUST RESISTANCE IN OAT SEEDLINGS.
J W Martens E I R McKenzie G J Green
Can J Bot 45(4):451-458 REF
Apr 1967 470 C16C
Fungus diseases (plants), Oats, Plant disease resistance,

20 14395-68

Plant genetics, Puccinia graminis avenae, Stem rust (oats), Temperature.
Abstract: Six of the identified genes for stem rust resistance in oats are divided into 3 categories of thermal sensitivity: resistance conferred by genes A and D is stable; that conferred by genes B and F 'breaks down' at intermediate temperatures; and that confered by genes E and F breaks down at relatively low temperatures.

14395-68
VARIABILITY AND THE INHERITANCE OF MORPHOLOGICAL MUTANTS IN PYRENOPHORA TERES.
W C McDonald
Phytopathology 57(7):747-755 REF
Jul 1967 464.8 P56
Plant morphology, Pyrenophora teres.
Abstract

14396-68
GERMINATION AND INFECTION OF CITRUS BY ASCOSPORES OF GUIGNARDIA CITRICARPA IN RELATION TO CONTROL OF BLACK SPOT.
K C McCoy
Phytopathology 57(7):743-746
Jul 1967 464.8 P56
Black spot (citrus), Chemical control (plant diseases), Citrus, Guignardia citricarpa, Spore germination.
Abstract

14397-68
SURVIVAL AND SAPROPHYTIC GROWTH OF VERTICILLIUM DAHLIAE IN UNGROWERED SOIL.
J L Menzies G E Griebel
Phytopathology 57(7):703-709
Jul 1967 464.8 P56
Soil amendments, Soil moisture, Soil-borne plant diseases, Verticillium dahliae.
Abstract

14398-68
FACTORS AFFECTING THE PRODUCTION OF PECTINOLYTIC ENZYMES BY GLOEOSPORIUM PSIDII, THE CAUSAL AGENT OF FRUIT ROT OF GUAVA (PSIDIUM GUAJAVA L.).
S K Midha J S Chohan
Indian Phytopathol 20(3):215-219 REF
Sep 1967 464.8 IN2
Culture media, Enzymes, Fungus diseases (plants), Gloeosporium psidii, Guavas.

14399-68
FUNGICIDAL ACTIVITY AND PHYTOTOXICITY OF CERTAIN MERCURIALS USED TO CONTROL FUSARIUM BASAL ROT OF NARCISSUS BULBS.
V I Miller C J Gould
Phytopathology 57(7):777-781 REF
Jul 1967 464.8 P56
Basal rot (narcissus), Chemical control (plant diseases), Fungicides, Fusarium, Mercury compounds.
Abstract

14400-68
EFFECT OF LEAF RUST ON YIELD OF SOME STEM RUST RESISTANT WHEATS OF MAHARASHTRA.
M L Mutkekar V P Phide
Indian Phytopathol 20(3):206-210
Sep 1967 464.8 IN2
Crop losses, Crop varieties, Crop yields, Fungus diseases (plants), Irrigation, Leaf rust (wheat), Plant disease resistance, Stem rust (wheat), Sulfur.

14401-68
PROCESS FOR CONTROLLING FUNGI WITH ITHACONAMIC ESTERS.
PATENT 3,[illegible] .56.
H P Leigh[illegible]
Us Patent Office Offic Gaz 848(4):1034
26 Mar 1968 156.85 OF2
Chemical control (plant diseases), Esters, Fungicides, Methylene-succinamic acid, 2(or 3)-.

14402-68
EFFECT OF DECORTICATION AND FUNGICIDE ON PERFORMANCE OF TABLE BEET SEED.
N H Peck E P Clark J J Natti
Agron J 59(1):78-80
Jan 1967 4 AM34F
Beets, Diethylaminobenzenediazo sodium sulfonate, p-, Fungicides, Plant physiology, Seed germination, Seed treatment, Thiram.
Abstract: Decortication of table beet seedballs had no adverse effects on seed germination, seedling growth, and performance of Arasan and Dexon seed treatments. Under dry soil condition Arasan and Dexon delayed seedling emergence. Dexon also reduced stands. Under moist soil conditions, Arasan and Dexon produced significantly more seedlings. Variable soil moisture conditions contributed to significant interactions between planting dates and fungicide or seedball size in field tests.

14403-68
EFFECT OF INSECTICIDAL SPRAYS ON STUNT AND MOSAIC VIRUS DISEASES OF CORN IN SMALL FIELD PLOTS IN MISSISSIPPI.
H N Pitre
J Econ Entomol 61(2):585-587 REF
Apr 1968 421 J822
Corn, Dalbulus maidis, Graminella nigrifrons, Insecticides, Mosaic (corn), Plant disease transmission, Spraying, Stunt (corn).

14404-68
IMPATIENS PARVIFLORA DC.- A NATURAL HOST OF CABBAGE BLACK RINGSPOT AND CUCUMBER MOSAIC VIRUSES.
Z Polak
Biol Plant 9(5):354-359 REF
1967 450 B52
Black ring spot (cabbage), Cabbage, Cucumbers, Impatiens parviflora, Mosaic (cucumbers), Virus diseases (plants), Weeds.

14405-68
THE MOSAIC DISEASE OF MULLEIN, VERBASCUM THAPSIFORME SCHRADER, OCCURING IN CZECHOSLOVAKIA.
Z Polak S Nenbaner
Biol Plant 9(5):360-367 REF
1967 450 B52
Mosaic (Verbascum), Plant disease transmission, Verbascum thapsiforme, Virus diseases (plants).

14406-68
REDUCED WINTER SURVIVAL AND YIELD OF CLOVER INFECTED WITH CLOVER YELLOW MOSAIC VIRUS.
M J Pratt
Can J Plant Sci 47(3):289-294
May 1967 450 C16
Clover, Crop yields, Virus diseases (plants), Yellow mosaic (clover).
Abstract: Yield and stand was recorded of clover infected with CYMV. A pattern of deterioration was established. The involement of fungal pathogens in further reducing the winter survival of CYMV-INFECTED clover is discussed.

14407-68
CONTROLLING FUNGI WITH 1,2-DICHLOROVINYL HYDROXYETHYL SULFIDE. PATENT 3,345,255.
G R Price M H McClellan
Us Patent Office Offic Gaz 843(1):255
03 Oct 1967 156.65 OF2
Chemical control (plant diseases), Dichlorovinyl hydroxyethyl sulfide, 1,2-, Fungicides, Patents.

14408-68
CHANGES IN PEACH TREES (CV. RED HAVEN) ATTACKED BY TAPHRINA DEFORMANS, WITH PARTICULAR REFERENCE TO NITROGEN METABOLISM IN INFECTED AND NON-INFECTED LEAVES.
V Raggi
Can J Bot 45(4):459-477 REF
Apr 1967 470 C16C
Amino acids, Fungus diseases (plants), Glycolysis, Leaf curl (peaches), Leaves, Nitrogen, Peaches, Plant metabolism, Taphrina deformans.

14409-68
PREDICTION OF PLANT DISEASE OCCURRENCE; A PATHO-GEOGRAPHICAL APPROACH.
I Reichert J Palti
Mycopathol Mycol Appl 32(4):337-355, MAP, REF
13 Sep 1967 450 M994
Bacterial diseases (plants), Fungus diseases (plants), Plant disease forecasting, Plant ecology, Plant geography, Plant quarantine.
Abstract: This approach may be useful as a basis for quarantine regulations. A further use of this approach is the establishment of seasonal thresholds for plant disease appearance, i.e. dates before which a disease will not occur in a given locality.

14410-68
FURTHER STUDIES ON MOSAIC DISEASE OF MAIZE (ZEA MAYS L.).
M L Seth S P Raychaudhuri
Biol Plant 9(5):372-376 REF
1967 450 B52
Corn, Insect vectors, Mosaic (corn), Schizaphis graminum,

Virus diseases (plants).
Abstract: On basis of similar properties, tolerance towards certain chemicals, host range, symptomatology, aphid vectors, and immunological tests, that maize mosaic virus and sugarcane mosaic virus are related viruses; both were tested in maize

14411-68
EPIDEMICLOGICAL STUDIES ON ANTHRACNOSE OF DIOSCOREA ALATA L. (EATALU)-YAM.
B U Singh A Prasad
Indian Phytopathol 20(3):226-236 REF
Sep 1967 464.8 IN2
Anthracnose (yams), Climate, Colletotrichum gloeosporioides, Fungus diseases (plants), Temperature, Yams.

14412-68
THE SURVIVAL IN SOIL OF ITERSONILIA PASTINACAE CHANNON, THE CAUSE OF PARSNIP CANKER.
E E Smith
Australian J Biol Sci 20(3):647-660 REF
Jun 1967 442.8 AU72
Canker (parsnips), Fungus diseases (plants), Iterscnilia pastinacae, Mortality, Soil fungi.
Abstract

14413-68
PELARGONIUM VIRUSES; SYMPTOMS, DIAGNOSIS AND CONTROL. (SW)
W Sodergren
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(3-4):51-63 REF
1967 464.9 SW3V
Pelargonium, Plant disease control, Virus diseases (plants).

14414-68
WOOD TANNINS. ISOLATION AND SIGNIFICANCE IN HOST RESISTANCE TO VERTICILLIUM WILT DISEASE.
T C Somers A F Harrison
Australian J Biol Sci 20(2):475-479 REF
Apr 1967 442.8 AU72
Apricots, Blackheart wilt (apricots), Phenols, Plant disease resistance, Tannins, Verticillium albo-atrum, Wood.

14415-68
ATTACK OF ONIONS BY PHYTOPHTHORA PORRI. (DU)
G M Tichelaar Van E A Kesteren
Neth J Plant Pathol 43(3):103-104
1967 464.8 T44
Fungus diseases (plants), Leaf spot (onions), Onions, Phytophthora porri.
First record on onions.

14416-68
A SERIAL DILUTION END-POINT METHOD FOR ESTIMATING DISEASE POTENTIALS OF CITRUS PHYTOPHTHORAS IN SOIL.
P H Tsao
Phytopathology 50(10):717-723 BIBL. 723-724, TABS.
Oct 1960 464.8 P56
Citrus, Fungus diseases (plants), Phytophthora, Soil fungi, Soil-borne plant diseases.

14417-68
INFLUENCE OF SOME NUCLEIC ACID METABOLISM INHIBITORS ON THE SYNTHESIS OF ALKALINE PROTEASE AND ALPHA-AMYLASE IN ASPERGILLUS ORYZAE.
H Urbanek K Maciejewska-Potapczyk T Kowalczyk
Acta Microbiol Polon 16(3):237-242 REF
1967 448.3 AC82
Amylase, alpha-, Antimetabolites, Aspergillus oryzae, Nucleic acids, Proteinases.
Abstract

14418-68
OCCURENCE OF A MOSAIC DISEASE ON BRINJAL.
G S Verma B Lal
Indian Phytopathol 20(3):243-247
Sep 1967 464.8 IN2
Eggplant, Insect vectors, Mosaic (eggplant), Myzus persicae, Plant disease transmission, Sap, Virus diseases (plants).

14419-68
ENDOGENOUS RESPIRATION OF WHEAT STEM RUST UREDOSPORES.
P G Williams P J Allen
Phytopathology 57(7):656-661 REF
Jul 1967 464.8 P56
Fungus diseases (plants), Plant respiration, Puccinia graminis, Stem rust (wheat).
Abstract

14420-68
ULTRASTRUCTURAL STUDIES ON THE HOST-PARASITE RELATIONS OF PLASMODIOPHORA BRASSICAE.
P H Williams Y E Yukawa
Phytopathology 57(7):682-687 REF
Jul 1967 464.8 P56
Brassica, Cabbage, Clubroot (cruciferae), Electron microscopy, Plasmodiophora brassicae, Ultrastructure.
Abstract

14421-68
ELECTRON MICROSCOPY OF DOUBLE-STRANDED RNA INDUCED BY TURNIP YELLOW MOSAIC VIRUS AND TOBACCO MOSAIC VIRUS.
D R Wolstenholme L E Bockstahler
Z Vererbungslehre 100(4):349-357 REF
1967 442.8 Z34
Cabbage, Electron microscopy, Mosaic (tobacco), Ribonucleic acid, Tobacco, Virus diseases (plants), Yellow mosaic (cabbage).
Abstract

14422-68
STUDY OF PARASITIC FUNGI OF SOUTHEAST ASIA. VII. FOURTH NOTE ON SOME CERCOSPORA AND STENELLA FROM SINGAPORE (MALAYSIA). (FR)
J M Yen
Rev Mycol 32(3):177-210
Nov 1967 450 AN74
Cercospora, Fungus diseases (plants), Stenella.

14423-68
SIGNIFICANCE OF SEEDLING RUST RESISTANCE OF SAFFLOWER AND ITS RELATIONSHIP TO FOLIAGE RUST RESISTANCE.
D E Zimmer A L Urie
Phytopathology 57(7):772-776 REF
Jul 1967 464.8 P56
Crop varieties, Fungus diseases (plants), Leaves, Plant disease resistance, Puccinia carthami, Rust (safflower), Seedlings.
Abstract

Arthropods

14424-68
THE SADDLE GALL MIDGE (HAPLODIPLOSIS EQUESTRIS) IN 1967. (SW
K Andersson
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 32(1):8-12
1968 464.9 SW3V
Chemical control (insects), Diazinon, Grain, Haplodiplosis equestris, Insect traps, Insecticide application.
Trapping determines proper timing of insecticide application.

14425-68
NOTE ON DAMAGE TO GRASSES IN THE PEACE RIVER REGION BY THE SPITTLEBUG, PHILARONIA BILINEATA SAY, (CERCOPIDAE: HEMIPTERA).
D A Arnott I Bergis
Entomol Soc Brit Columbia Proc 64:8-9
01 Aug 1967 420 B77
Grasses, Philaronia bilineata.
Abstract

14426-68
THE PROTECTION OF PLANT COLLECTIONS FROM PESTS. 3. (RUS)
V G Ber
Bot Zhur (moscow) 52(2):240-248 REF
Feb 1967 451 R923
Herbariums, Insect pests, Plant pest control.

14427-68
A NOTEWORTHY ATTACK BY PHYLLOBIUS VIRIDICOLLIS IN CLOVER FIELD. (SW)
A Borg
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(5-6)85-86
1967 464.9 SW3V
Clover, Phyllobius viridicollis.

20 14428-68

14428-68
WEEVILS (SITONA SPECIES) ON CULTIVATED LEGUMES. (SW)
A Berg
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(5-6):76-79
1967 464.9 S43V
Legumes, Plant pests, Sitona.

14429-68
THE RELATIVE EFFICIENCY OF AERIAL APPLICATION OF ULTRA-LOW-VOLUME AND EMULSIFIABLE CONCENTRATE FORMULATIONS OF INSECTICIDES.
J R Brazzel W W Watson J S Bursh M H Adair
J Econ Entomol 61(2):408-413 REF
Apr 1968 421 J822
Aerial spraying, Emulsions, Formulations, Insecticide application, Ultra low volume applications.
Abstract

14430-68
PERSISTENCE OF HELICTHIS NUCLEAR-POLYHEDROSIS VIRUS ON COTTON FOLIAGE.
R R Hallock
J Invertebrate Pathol 9(3):434-436
Sep 1967 421 J826
Biological assay, Cotton, Heliothis virescens, Heliothis zea, Insect diseases, Polyhedroses, Surface-active agents.

14431-68
BEAUVERIA BASSIANA INFECTING ADULT CLOVER ROOT CURCULIO IN MISSOURI.
W R Crow E Buttler D M Daugherty
J Econ Entomol 61(2):576-577
Apr 1968 421 J822
Beauveria bassiana, Insect diseases, Sitona hispidula.

14432-68
EVIDENCE CONCERNING CA F32 LABELING MATERIAL IN THE BODY OF APHIS FABAE SCOP. AND ITS LARVAE (HOMOPTERA, APHIDIDAE). (GE)
T Danneel
Z Angew Zool 54(3):433-434
1967 445.E 23E
Aphis fabae, Larvae, Phosphorus isotopes, Radioactive tracers.

14433-68
LOW-VOLUME APPLICATION OF MALATHION BY HELICOPTER FOR CONTROLLING LARCH CASEBEARER.
R E Denton S Hanneck
J Econ Entomol 61(2):582-583
Apr 1968 421 J822
Aerial spraying, Agathis pumila, Chemical control (insects), Coleophora laricella, Helicopters, Larix occidentalis, Low volume applications, Malathion, Parasitic insects.

14434-68
NOTES ON A SPRUCE BARK WEEVIL, PISSODES ALASCENSIS HOPKINS (COLEOPTERA: CURCULIONIDAE), IN BRITISH COLUMBIA.
D E Bridge
Entomol Soc Brit Columbia Proc 64:63-66,MAP
01 Aug 1967 420 E77
Forest insects, Insect biology, Picea, Pissodes alascensis.
Abstract

14435-68
GENERAL INSECT ACTIVITY ON RISE IN MARCH.
K Durward
Agr Chem 15(5):66, 109-110
May 1960 381 AG8
Anthonomus grandis, Aphididae.

14436-68
EUROPEAN CORN BORER SURVEY FINDS COUNTS GENERALLY LOWER.
K Durward
Agr Chem 15(2):71
Feb 1960 381 AG8
Anthonomus grandis, Murgantia, Ostrinia, Population statistics, Schizaphis.

14437-68
CONE INSECTS OF GRAND FIR, ABIES GRANDIS (DOUGLAS) LINDLEY, IN BRITISH COLUMBIA.
A P Bedlin
Entomol Soc Brit Columbia Proc 64:40-44
01 Aug 1967 420 E77
Abies grandis, Cecidomyiidae, Chalcidae, Cones, Earomyia atictus, Forest insects, Gall-making insects, Lepidoptera.
Abstract

14438-68
GARDEN PESTS AND DISEASES; A GUIDE TO RECOGNITION AND CONTROL. SB603.5.H4.
A G L Hellyer
96 P. LONDON, COLLINGRIDGE
1966
Disease control, Fumigants, Fungicides, Gardens, Handbooks, Insect pests, Insecticides, Pest control, Plant protection, Vegetables.

14439-68
TOXICITY OF SOME INSECTICIDES TO LARVAE OF CODLING MOTH AFTER THEY ENTER APPLES.
W S Hough
J Econ Entomol 55(3):378-381
Jun 1962 421 J822
Apples, Carpocapsa pomonella, Insecticides, Larvae, Toxicity.

14440-68
THE ARMY CUTWORM AS A PEST OF MUSTARD.
L A Jacobson
J Econ Entomol 55(3):408-409
Jun 1962 421 J822
Chorizagrotis auxiliaris, Insect control, Mustard.

14441-68
THE CONTROL OF FRIT FLY, OSCINELLA FRIT (L.), IN SWEET CORN (ZEA MAYS) BY THIMET (O,O-DIETHYL S-ETHYLTHIOMETHYL PHOSPHORODITHIOATE).
W F Jepson P Mathias
Bull Entomol Res 51(3):427-433
Nov 1960 421 B87
Corn, Oscinella frit, Phorate.

14442-68
OCCURRENCE OF BREVIPALPUS MITES, LEPROSIS, AND FALSE LEPROSIS ON CITRUS IN FLORIDA.
L C Knorr H A Denmark R C Burnett
Fla Entomol 51(1):11-17,MAP
Mar 1968 420 F662
Brevipalpus, Citrus, Leprosis (citrus), Mites, Plant diseases.

14443-68
SOIL AND STAND CONDITIONS RELATED TO SOUTHERN PINE BEETLE ACTIVITY IN HARDIN COUNTY, TEXAS.
P L Lorio
J Econ Entomol 61(2):565-566
Apr 1968 421 J822
Dendroctonus frontalis, Drainage, Forest insects, Pinus, Soils.

14444-68
AN INSECTICIDAL APPLICATION FOR INTEGRATED CONTROL OF THE BROWN PLANTHOPPER IN PADDY RICE.
M J MacQuilian
J Econ Entomol 61(2):568-569
Apr 1968 421 J822
Formulations, Integrated control (insects), Mecarbam, Nilaparvata lugens, Rice.

14445-68
LABORATORY TESTS OF ULTRA-LOW-VOLUME AND CONVENTIONAL LOW-VOLUME SPRAYS FOR CONTROLLING THE BOLLWORM AND THE TOBACCO BUDWORM.
S J Nemec P L Adkisson R W Dorough
J Econ Entomol 61(1):209-213 REF
Feb 1968 421 J822
Chemical control (insects), Heliothis virescens, Heliothis zea, Low volume application, Spraying, Ultra low volume application.
Abstract

14446-68
A MITE AS A PEST OF YOUNG PLUM TREES. (SW)
K Olsson
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(3-4):40-45
1967 464.9 SW3V
Aculus fockeni, Mites, Plant pests, Plums.

14447-68
A SMALL SCALE FIELD TRIAL ATTEMPTING TO CONTROL RED SPIDER MITES ON GROUNDNUTS WITH ARAMITE AND METASYSTOX AT ARUSHA IN THE DRY SEASON.
R H Parish M E A Matern
Arusha Trop Pesticides Res Inst Misc Rep 487,5 P
Dec 1964 423.92 G7922
Acaricides, Aramite, Insect control, Methyl demeton, Peanuts, Tetranychus telarius.

14448-68
OCCURRENCE OF BRACON GELECHIAE ASHMEAD AS A PARASITE OF POTATO TUBER MOTH, GNORIMOSCHEMA OPERCULELLA (ZELLER) IN THE FIELD IN PUNJAB STATE AND ASSAM AND ITS OTHER HOSTS RECORDED IN INDIA.
V P Rao K Ramachandran Nair
Commonwealth Inst Biol Contr Tech Bull 9:73-75
Oct 1967 423.92 C7331
Bracon gelechiae, Gnorimoschema operculella, Host specificity, Ichneumonidae, Insect pests, Parasitic insects, Potatoes.

14449-68
CONTROL OF THE APPLE AMORPHOPHORA AGATHONICA IN RASPBERRY ORCHARD STOCK.
G A Schaefers
J Econ Entomol 61(2):384-387
Apr 1968 421 J822
Amphorophora agathonica, Chemical control (insects), Fruit nurseries, Insecticides, Raspberries.
Abstract

14450-68
SOME CONTROL EXPERIMENT IN THE LABORATORY OF THE RAPE BEETLE (MELIGETHES AENEUS F.) AND THE CABBAGE SEEDPOD WEEVIL (CEUTORHYNCHUS ASSIMILIS. PAYK.). (SW)
K Schmutzenhofer
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(5-6):70-74
1967 464.9 SW3V
Cabbage, Ceutorhynchus assimilis, Chemical control (insects), Meligethes aeneus, Rape.

14451-68
EFFECT OF HOST PLANT ODOUR ON THE BEHAVIOUR OF THE ADULT CABBAGE ROOT FLY, PHORBIA BRASSICAE.
B M M Traynier
Entomol Exp Appl 10(3):321-328
1967 421 EN695
Cabbage, Carrots, Food plants, Hylemya brassicae, Insect behavior, Lettuce, Rutabagas, Smell.
German summary
Abstract

14452-68
TEMPERATURE, PLANT-GROWTH STAGE, AND INSECT-POPULATION EFFECTS ON SEEDLING SURVIVAL OF RESISTANT AND SUSCEPTIBLE ALFALFA INFESTED WITH POTATO LEAFHOPPERS.
J A Webster E L Sorensen H H Painter
J Econ Entomol 61(1):142-145 REF
Feb 1968 421 J822
Alfalfa, Empoasca fabae, Insect populations, Plant pest resistance, Seedlings, Statistical analysis, Temperature.
Abstract

14453-68
COTTON-INSECT CONTROL WITH LOW-VOLUME CONCENTRATES OF MALATHION APPLIED BY AIRCRAFT.
G P Wene I W Sheets
J Econ Entomol 58(6):1170-1171
Dec 1965 421 J822
Aircraft disinfestation, Cotton, Insect control, Malathion.

14454-68
THE MARSH CRANE FLY, TIPULA PALUDOSA MG., A NEW PEST IN BRITISH COLUMBIA (DIPTERA: TIPULIDAE).
A T S Wilkinson R E MacCarthy
Entomol Soc Brit Columbia Proc 64:29-34 REF
01 Aug 1967 420 E77
Insect biology, Insect pests, Lawns, Natural control (insects), Parasitic insects, Pastures, Siphona geniculata, Tipula paludosa.
Abstract

Nematodes

14455-68
CHANGES ASSOCIATED WITH PARASITISM IN NEMATODES. II. HISTOCHEMICAL AND MICROSPECTROPHOTOMETRIC ANALYSES OF PRE-PARASITIC AND PARASITIC LARVAE OF MELOIDOGYNE JAVANICA.
A F Bird W Sanrer
J Parasitol 53(6):1262-1269 REF
Dec 1967 44E.6 J824
Histochemistry, Larvae, Meloidogyne javanica, Nematodes, Parasitism, Spectrophotometry.
Abstract: The esophageal regions of second-stage larvae of M. javanica were examined with UV microspectrograph. Histochemical tests of both these types of larvae supported the results with microspectrograph and showed the content of ducts of subventral esophageal glands change their chemical composition in 2 to 3 days of entering the host plant and become strongly periodic acid-Schiff positive.

14456-68
ALLYL DIALKYITHIOLCARBAMATE NEMATOCIDES. PATENT 3,382,144.
M W Harman J J DiAmico
US Patent Office Offic Gaz 850(1):240
07 May 1968 156.65 OF2
Carbamates, Nematocides, Patents, Thiolcarbamates.

14457-68
ACETYLCHOLINESTERASE AND BUTYRYLCHOLINESTERASE IN THE LIVER FLUKE (FASCIOLA HEPATICA).
S Krvavica A Lui S Becejac
Exp Parasitol 21(2):240 -248 REF
Oct 1967 436.H EX7
Acetylcholinesterases, Cattle, Cholinesterases, Fasciola hepatica, Histochemistry.
Abstract: A large quantity of acetylcholinesterases was found in the muscles of the pharynx, the cirrus, the cerebral ganglion, and nerves of the liver fluke. In both the sporocyst and the redia the acetylcholinesterase is located in the anterior part of the body; in the cercaria, however, acetylcholinesterase is present not only in the region of the c. ganglion but in the nerves and tail.

14458-68
WHAT CAN BE DEDUCED FROM THE POTATO CYST NEMATODE ANALYSIS ACCORDING TO THE CYST FIGURE?. (SW)
G Videgard
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(2):29-31
1967 464.9 SW3V
Heterodera rostochiensis, Plant nematodes, Potatoes.

14459-68
ATTACK BY THE POTATO CYST NEMATODE DOES NOT ALWAYS SHOW ABOVE THE GROUND. (SW)
G Videgard
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(2):21-22
1967 464.9 SW3V
Heterodera rostochiensis, Plant nematodes, Potatoes.

14460-68
THE OAT CYST NEMATODE ATTACKS ALL SPRING GRAIN. (SW)
G Videgard
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(5-6):88-90
1967 464.9 SW3V
Grain, Heterodera schachtii, Oats.

14461-68
ROOT-LESION NEMATODES ASSOCIATED WITH FORAGE LEGUMES IN THE MARITIME PROVINCES.
C B Willis L S Thompson
Can Plant Dis Surv 47(3):87-88
Sep 1967 464.9 C16S
Alfalfa, Birdsfoot trefoil, Clover, Forage plants, Legumes, Plant nematodes, Pratylenchus.
Abstract: Pratylenchus more numerous from red clover roots than from alfalfa, and were extracted from 46 of 70 root samples.

Weeds

14462-68
RECORD AIR APPLICATION OF HERBICIDE FORECAST FOR COTTON.
Anonymous
Aerial Appl 6(2):12
Feb 1968 333.8 AE8
Aerial weed control, Aircraft, Chemical control (weeds), Cotton, Herbicides.

2D 14463-68

14463-68
HERBICIDAL COMPOSITIONS AND PROCESSES OF CONTROLLING UNDESIRABLE PLANT SPECIES IN THE PRESENCE OF CROPS THEREWITH. PATENT 3,351,458.
D D Bondarenko
US Patent Office Offic Gaz 844(1):250
07 Nov 1967 156.65 OF2
Chemical control (weeds), Crops, Herbicides, Patents, Weed control.

14464-68
DETOXIFICATION OF SOME HERBICIDES BY STREPTOMYCES.
B C Bonds A F Colmer
Weeds 15(3):249-252, 9 REFS.
Jul 1967 75.8 W41
(trichloropheneoxy, 2,4,5-) propionic acid, 2-, Chloro-N,N-diallylacetamide, 2-, CIPC, Dalapon, Dichloropheneol, 2,4-, Dichloropropionic acid, 2,2-, Fenac, Isopropyl N-(3-chlorophenyl) carbamate, Streptomyces viridochromogenes, T, 2,4,5-, Trichlorophenoxyacetic acid, 2,4,5-, Trichloropheneylacetic acid, 2,3,6-, 2-(2,4,5-trichloropheneoxy) propionic acid, 2,4-D.

14465-68
THE FIGHT AGAINST WEEDS.
D Campbell
Agr Chem 22(9):49-50
Sep 1967 381 AG8
Weed control, Weeds.

14466-68
METHOD OF DESTROYING A WEED. PATENT 3,352,663.
H E Brenndt E Arndt R Rusch
US Patent Office Offic Gaz 844(2):617
14 Nov 1967 156.65 OE2
Chemical control (weeds), Furans, Herbicides, Patents, Weed control.

14467-68
PROCESS FOR KILLING GROWING PLANTS. PATENT 3,348,939.
D W Gier
US Patent Office Offic Gaz 843(4):1427
24 Oct 1967 156.65 OF2
Acetylenic carbonates, Chemical control (weeds), Herbicides, Patents.

14468-68
DIALKYL AND DIPHENYL ESTERS OF ARYLOXYACETYL-PHOSPHONIC ACID AS HERBICIDES. PATENT 3,382,06D.
D W Gier
US Patent Office Offic Gaz 850(1):224
07 May 1968 156.65 OF2
Aryloxacetyl-phosphonic acid compounds, Herbicides, Patents.

14469-68
HERBICIDAL COMPOSITION AND METHOD EMPLOYING SUBSTITUTED BENZIMIDAZOLES. PATENT 3,325,271.
R Goldsmith B F Crawford
US Patent Office Offic Gaz 839(2):675
13 Jun 1967 156.65 OF2
Benzimidazoles, Herbicides, Patents, Sodium borate, Weed control.

14470-68
MODES OF ACTION OF 3-AMINO-1,2,4-TRIAZOLE: CURRENT STATUS. IN: ISOTOPES IN WEED RESEARCH; PROCEEDINGS OF A SYMPOSIUM, VIENNA, 25-29 OCTOBER 1965 S589.S9.
J L Hilton
71-83 REF INTERNATIONAL ATOMIC ENERGY AGENCY
1966
Amitrole, Herbicides, Plant growth inhibitors.
Abstract

14471-68
PROCESS OF KILLING WEEDS EMPLOYING ACYLATED UREA DERIVATIVES. PATENT 3,342,586.
J Lebureau F Poignant
US Patent Office Offic Gaz 842(3):1048
19 Sep 1967 156.65 OF2
Acylated urea compounds, Chemical control (weeds), Herbicides, Patents, Weed control.

14472-68
HERBICIDAL METHODS AND COMPOSITIONS COMPRISING 2-AMINO AND LOWER ALKANCARBOC-5-HALOTHIAZOLES. PATENT 3,374,082.
A J Lemin
US Patent Office Offic Gaz 848(3):750
19 Mar 1968 156.65 OF2
Alkancamido-5-halothiazoles, Amino-5-halothiazoles, 2-, Chemical control (weeds), Chloro-2-thiazolyl)propionamide, N-(5-, Herbicides, Patents.

14473-68
METHOD FOR PREVENTING PLANT GROWTH. PATENT 3,340,043.
J E Clin
US Patent Office Offic Gaz 842(1):268
05 Sep 1967 156.65 OF2
Chemical control (weeds), Haloacetanilide, alpha, Herbicides, Patents.

14474-68
PHYTOTOXIC COMPOSITIONS AND METHOD OF USE. PATENT 3,325,270.
J F Clin
US Patent Office Offic Gaz 839(2):675
13 Jun 1967 156.65 OF2
Haloacetamides, alpha-, Herbicides, Patents, Weed control.

14475-68
A SURVEY OF WEED LEAF STOMATA AND TRICHOMES.
D J Ormrod A J Renney
Can J Plant Sci 48(2):197-209 REF
Mar 1968 450 C16
Leaves, Spraying, Stomata, Weeds.
Abstract: A series of drawings was made depicting the different stomatal characteristics and types of trichomes. It was estimated leaves of nine species had enough pubescence to influence retention or penetration of sprays. 35 species were examined. Implications for herbicidal control discussed.

14477-68
COMPETITION IN EXPERIMENTAL POPULATIONS OF WEEDS WITH EMPHASIS ON THE REGULATION OF POPULATION SIZE.
I G Palmblad
Ecology 49(1):26-34 REF WINTER
1968 410 EC7
Competition, Plant ecology, Seed germination, Weeds.
Abstract: Species were subjected to conditions of intraspecific competition involving variable regimes of: (1)seed sowing density, (2)soil surface, (3)fertilizer, (4)moisture, etc. The population of some species may be further regulated by: (1)self-controlled germination, (2)mortality, (3) individual plasticity.

14479-68
METHOD OF CONTROLLING THE GROWTH OF UNDESIRABLE PLANTS. PATENT 3,342,583.
E A Regel
US Patent Office Offic Gaz 842(3):1047
19 Sep 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Phosphine sulfides.

14480-68
METHOD FOR THE CONTROL OF WEEDS. PATENT 3,333,944.
A A Levin S R Richter
US Patent Office Offic Gaz 841(1):222
01 Aug 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Thiobenzoic acids, Weed control.

14481-68
CHEMICAL WEED CONTROL HANDBOOK. SB951.B56.
B P Roche
170 P.
1967
Chemical control (weeds), Handbooks, Herbicides, Weed control.

14462-66
POST-EMERGENCE HERBICIDAL MIXTURE AND METHOD OF USE.
PATENT 3,340,042.
H Schwartz J E Skaptason
US Patent Office Offic Gaz 842(1):268
05 Sep 1967 156.65 OF2
Aromatic hydrocarbons, Benzanilide, Chemical control (weeds), Herbicides, Oxygenated organic solvent, Patents, Synergists.

14463-66
HERBICIDAL PHENYLUREAS. PATENT 3,326,663.
S B Soloway K D Zwahlen
US Patent Office Offic Gaz 839(3):1092
20 Jun 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Phenylureas.

14464-66
HERBICIDAL MIXTURE AND METHOD. PATENT 3,333,948.
T Takematsu M Kudo
US Patent Office Offic Gaz 841(1):223
01 Aug 1967 156.65 OE2
Chemical control (weeds), Cyclohexenyl) cyclohexanone, 2-(1-, Dichlorophenylcarbamate, 3,4-, Herbicides, Patents, Pesticide mixtures.

14465-66
METHOD OF CONTROLLING UNDESIRABLE PLANT GROWTH.
PATENT 3,360,356.
J F Vartiak
US Patent Office Offic Gaz 845(4):1457
26 Dec 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Polymers, Spraying, Weed control.

14466-66
BENZENE HEXACHLORIDE AS A PREEMERGENCE HERBICIDE.
PATENT 3,356,486.
E L Walworth
US Patent Office Offic Gaz 845(1):248
05 Dec 1967 156.65 OE2
Benzene hexachloride, Benzene hexachloride, delta-, Herbicides, Lindane, Patents, Preemergence, Weed control.

14467-66
METHOD FOR PREVENTING PLANT GROWTH WITH ORGANOTIN BORATES.
PATENT 3,361,554.
G Weissenberger
US Patent Office Offic Gaz 846(1):218
02 Jan 1968 156.65 OE2
Chemical control (weeds), Herbicides, Organotin borates, Patents.

14468-66
METHOD OF COMBATTING THE GROWTH OF UNDESIRED PLANTS.
PATENT 3,374,084.
J Wijma
US Patent Office Offic Gaz 848(3):751
19 Mar 1968 156.65 OF2
Chemical control (weeds), Herbicides, Hydroxymethyl-2,6-dichlorothiobenzamide, N-, Methyl-2,6-dichlorothiobenzamide compounds, Patents, Propoxymethyl-2,6-dichlorothiobenzamide, N-n-.

Other Pests

14469-66
GASTROPODICIDALLY EFFECTIVE SUBSTITUTED 5-HALO-3-PHENYL-SALICYLANILIDES. PATENT 3,382,145.
J F Chupp J D Early
US Patent Office Offic Gaz 850(1):240
07 May 1968 156.65 OE2
Molluscacides, Patents, Phenylsalicylanilides, 3-.

14490-68
THE COMMON SLUG, A PLANT PROTECTION PROBLEM ON HARD SOILS.
(SW
I Nilsson
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(5-6):67-70
1967 464.9 S93V
Field crops, Plant pest control, Slugs.

14491-68
MYXOMATOSIS: THE PREPARATION OF MYXOMA VIRUS FOR INOCULATION VIA THE EYE.
W R Sobey D Conolly K M Adams
Australian J Sci 30(6):233-234
Dec 1967 475 AU72
Inoculum, Myxomatosis, Rabbits, Rodent control.

30 LIVESTOCK PROTECTION

Diseases

14492-6B
ANTITHYROTOXIC FACTOR CONTENT OF VARIOUS ROUGHAGES AND COW FECES BASED ON REPRESSION OF INDUCED LIVER MALIC ENZYME IN THYROTOXIC RATS.
S Addanki J W Ribbs H R Conrad
J Nutr 94(2):125-128 FEB
Feb 1968 389.8 JB2
Animal nutrition, Cattle, Enzymes, Feces, Liver, Malate dehydrogenase, Rats, Roughage, Thyroxine.
Abstract

14493-6B
THE IODINE CONTENT OF BULK BEBU MILK IN SUMMER IN RELATION TO ESTIMATED DIETARY IODINE INTAKE OF COWS.
G Alderman M B Stranks
J Sci Food Agr 18(4):151-153 FEB
Apr 1967 382 SO12
Cattle, Diet, Iodine, Milk.
Where bulk milk iodine content is less than 25 micrograms per litre, iodine requirements for dairy herds with average yields are not being met.

14494-6B
PARTIAL RESISTANCE OF CALVES TO COOPERIA PUNCTATA FOLLOWING SUBCUTANEOUS INOCULATION OF HOMOLOGOUS INFECTIVE LARVAE.
J E Alicata
J Parasitol 54(2):350
Apr 1968 448.8 JB24
Cattle, Cooperia punctata, Immunity, Immunization, Larvae.

14495-6B
ABSORPTION, DISTRIBUTION AND EXCRETION OF SULFONAMIDES IN RUMINANTS.
P B Austin
Fed Amer Soc Exp Biol Fed Proc 26(4):1001-1005 FEB
Jul 1967 442.9 F31F
Excreta, Ruminants, Sulfonamides.

14496-6B
VIRUSES CONTRIBUTING TO THE CYTOPATHIC EFFECT OF HOG CHOLERA STRAIN PAV-1.
P A Bachmann E E Sheffy G Siegl
Arch Gesamte Virusforsch 22(3-4):467-471 FEB
1967 448.3 AR23
Cytopathology, Hog cholera virus, Physiology, Tissue culture, Viruses.
Abstract: Primary SPF pig kidney cultured hog cholera virus strain PAV-1 at passages 2B,135 and205 was studied for cytopathogenicity in PK cell cultures. No adenovirus, BVD virus or mycoplasma were demonstrated in these cultures although typical cytopathic changes developed. Cytopathic changes recorded were due to hog cholera virus infections.

14497-6B
EFFECT OF FERTILIZATION ON CHEMICAL COMPOSITION, NUTRITIVE VALUE, AND SILICA CONTENT OF ROUGH FESCUE, FESTUCA SCABRELLA.
L M Bezeau L E Lutwick A U Smith A Johnston
Can J Plant Sci 47(3):269-272 FEB
May 1967 450 C16
Cattle, Fertilizers, Festuca, Festuca scabrella, Nitrogen, Phosphorus, Proteins, Silica, Urolithiasis.

14498-6B
INFLUENCE OF ISOSPORA INFECTIONS ON PATENCY OF AVIAN LANKESTERELLA (ATOXOPLASMA, GARNHAM, 1950).
E U Fox
J Parasitol 53(6):1140-1147 FEB
Dec 1967 448.8 JB24
Animal diseases, Birds, Coccidiosis, Lankesterella.
Abstract: Parasitemia and death from Lankesterella increased when sparrows were caged together with access to fecal contamination. Administration of Isospora oocysts to adult and nestling sparrows and canaries also increased parasitemia and death from Lankesterella.

14499-6B
SPIROCERCOSIS IN UGANDA AND ITS ASSOCIATION WITH FIBROSARCOMA IN A DOG.
O Ruangamoi
J Small Anim Pract 8(7):395-398 FEB
Jul 1967 41.8 JB292
Dogs, Fibrosarcoma, Spirocerca lupi.
English, French, and German abstracts
Abstract

14500-6B
FOUR CASES OF CANINE INTESTINAL CARCINOMA.
M T Case L C Belper C E Knecht F Small
Vet Med/Small Anim Clin 63(1):40-47
Jan 1968 41.8 M69
Carcinoma, Dogs, Intestines.

14501-6B
RABIES IN NEW MEXICO CAVERN BATS.
U G Constantine E S Tierkel M U Kleckner U M Rawkins
Public Health Rep 83(4):303-316 FEB
Apr 1968 151.65 P9C
Bats, Cave fauna, Rabies.
Abstract

14502-6B
AN ANALYSIS OF CURRENT INSPECTION PROCEDURES FOR DETECTING BOVINE CYSTICERCOSIS.
L W Oewhirst J U Cramer J J Sheldon
Amer Vet Med Ass J 150(4):412-417 FEB
15 Feb 1967 41.8 AM3
Agglutination test, Carcasses, Cattle, Echinococcosis, Meat inspection, Taenia saginata.
Abstract: Comparisons of prescribed United States inspection procedures for bovine cysticercosis with more extensive examinations of the predilection sites showed that the prescribed procedures did not detect infection in at least 26 percent of the carcasses. Antemortem test utilizing intradermal and hemagglutination tests were more accurate in detecting infected animals than the currently prescribed inspection procedures for carcasses.

14503-6B
PLANT POISONING INVOLVING MALE FERN.
J T Edgar I M Thin
Vet Rec 82(1):33-34
06 Jan 1968 41.8 V641
Cattle, Poisoning, Poisonous plants, Pteridophyta.

14504-6B
AN ATTEMPT TO PRODUCE SWAYBACK IN LAMBS BORN TO EWES DOSED WITH HIGH LEVELS OF MOLYBDENUM, INORGANIC SULPHATE AND MANGANESE DURING PREGNANCY.
U A Egan T O:Cuill
Irish Vet J (N.S.)22(2):28-32 FEB
Feb 1968 41.8 IR4
Manganese, Molybdenum, Sheep, Sulfates, Swayback.

14505-6B
HYPOCALCAEMIA AND HYPERMAGNESAEMIA IN LACTATING AWASSI EWES.
M Egyed A De Lange
Refuah Vet 24(1):36-34 FEB
Mar 1967 41.8 R25
Calcium phosphates, Hypermagnesemia, Hypocalcemia, Lactation, Sheep.

14506-6B
OCCURRENCE OF TRYPANOSOMA THEILER; IN BOVINE PERIPHERAL BLOOD.
S A Ewing U L Carnahan
Amer Vet Med Ass J 150(10):1131-1132 FEB
15 May 1967 41.8 AM3
Blood, Cattle, Trypanosoma theileri.

14507-6B
RUMINAL LESIONS IN CATTLE FED ON BARLEY.
B P Pell M Kay J T Walker
Vet Rec 81(27):715-716
30 Dec 1967 41.8 V641
Barley, Cattle, Rumen.
Apparently due to the sharp, hollow hairs on barley.

14508-6B
BRUCELLOSIS REACTORS AMONG VACCINATED CATTLE.
P U Fichandler
Amer Vet Med Ass J 150(6):624-626 FEB
15 Mar 1967 41.8 AM3
Brucellosis, Cattle, Immunization.
Abstract: Of 35 Connecticut cattle classified as brucello-

sis reactions during a 2-year period, 76 percent were either proved or suspected of being vaccinated with strain 19 vaccine when more than 8 months old and some when as much as 16 months old. Persistent high titers in these over-age vaccinated cattle, which resulted in their being classified as reactors at adulthood, delayed the certification of Connecticut as a brucellosis-free state for over a year.

14509-68
ENCEPHALOMYOCARDITIS VIRUS INFECTIONS IN FLORIDA. 1960-1966.
J H Gainer
Amer Vet Med Ass J 151(4):421-425 AEP
15 Aug 1967 41.8 AM3
Animals, Calves, Encephalomyocarditis viruses, Monkeys, Pesticides, Poisoning, Rats, Swine.
Abstract: Twenty-four isolations were made from 18 animals representing 6 species, eleven from swine, 114 of which died. In several swine and 1 calf, chemical analysis of tissues intimated complicating chemical poisoning, particularly by pesticides. These isolations suggested a high prevalence of the virus widely distributed in Florida, and that swine and subhuman primates are particularly susceptible. The importance of infection in herbivorous animals and the possible significance of related chemical poisonings to the virus infections are not now known.

14510-68
LISTERIC MYELITIS IN SHEEP.
G A Gates D C Flenden I D Kintner
Amer Vet Med Ass J 150(2):200-204 REF
15 Jan 1967 41.8 AM3
Lambs, Listeria monocytogenes, Listericsis, Mortality, Sheep.
Abstract: Four lambs with listeric myelitis characterized by paralysis of one or more limbs had no significant lesions in their brain stems nor any clinical signs related to dysfunction of the brain or cranial nerves. Listeria monocytogenes was isolated from the spinal cords of 2 of the lambs but not from the brains. The flock of which these lambs were a part had a 34 percent (49 of 145 sheep) mortality due to encephalitic listeriosis.

14511-68
AVAILABILITY AND UTILIZATION OF MAGNESIUM FROM DOLOMITIC LIMESTONE AND MAGNESIUM OXIDE IN STEERS.
H J Gerken J F Fontenot
J Anim Sci 26(6):1404-1408 REF
Nov 1967 49 J82
Cattle, Diet, Hypomagnesemia, Limestone, Magnesium oxide.
Abstract

14512-68
ISOLATION OF SALMONELLA TYPHIMURIUM FROM CARRIER PIGS.
M Gitter A B M Kidd
Vet Rec 81(14):356-359
30 Sep 1967 41.8 V641
Livestock diseases, Salmonella typhimurium, Swine.

14513-68
THE DETECTION OF ENZOOTIC PNEUMONIA IN PIG HERDS. I. EIGHT YEARS GENERAL EXPERIENCE WITH A PILOT CONTROL SCHEME.
E E W Goodwin P Whittlestone
Vet Rec 81(25):643-647
16 Dec 1967 41.8 V641
Animal diseases, Germ-free life, Pneumonia, Swine.

14514-68
PRELIMINARY EXPERIMENTS WITH ANTIGENS OF THEILERIA PARVA (THEILER, 1904).
B N Gonrlay D W Brocklesby
Brit Vet J 123(12):533-540
Dec 1967 41.8 V643
Antigens, Cattle, Insect vectors, Precipitin test, Rhipicephalus appendiculatus, Theileria parva.

14515-68
PRELIMINARY EVALUATION OF A TRIVALENT BOVINE VACCINE.
A E Granston C J Welter
Vet Med/small Anim Clin 63(1):58-63 REF
Jan 1968 41.8 M69
Bovine rhinotracheitis vaccines, Bovine virus diarrhea vaccines, Calves, Parainfluenza-3 virus, Vaccines.

14516-68
A CONTAGIOUS POX DISEASE IN MONKEYS.
A S Ball W E McNulty
Amer Vet Med Ass J 151(7):833-838 REF
01 Oct 1967 41.8 AM3
Epidemiology, Humans, Monkeys, Poxviruses, Skin diseases.
Abstract: A spontaneously occurring, contagious, epidermal disease in macagues was transmitted to animal handlers. The clinical course and morbid anatomy was characteristic of a pox infection; however, the isolated agent, while morphologically a pox virus, was not a type that is presently known to infect monkeys or man. Although the method of transmission from monkey to monkey is unknown, handlers usually contracted the disease through small scratch wounds on the arms. The disease has a benign and relatively short course.

14517-68
INFLUENCE OF A PENICILLIN-STREPTOMYCIN PREPARATION ON LAMB MORTALITY.
A H Handy D R Redman L S Bell C F Parker
Amer Vet Med Ass J 150(2):196-199 REF
15 Jan 1967 41.8 AM3
Antibiotics, Lambs, Mastitis, Mortality, Penicillin, Pneumonia, Sheep, Streptomycin.
Abstract: Pregnant ewes were treated intramuscularly with penicillin-streptomycin both prior to and after lambing. The same preparation was given to their lambs intramuscularly at birth and twice weekly until they were 30 days old. Mastitis and pneumonia resulting in death occurred in untreated control ewes. Mortality was halved in treated over untreated lambs. Average weight gain was slightly higher in the treated than in the untreated lambs.

14518-68
MYCOTIC DERMATITIS IN SHEEP. I. CLINICAL OBSERVATIONS IN GREAT BRITAIN.
C B Bart
Vet Rec 81(2):36-47 REF
08 Jul 1967 41.8 V641
Dermatophilus congolensis, Mycotic dermatitis, Sheep.
Abstract: Disease more severe on back than flanks. Disease activity high during wet season and low during dry season. Distribution of lesions suggests that treatment on back only would be sufficient.

14519-68
EVALUATION OF A RAPID WHOLE BLOOD TEST FOR BRUCELLOSIS.
R C Hatfield
Amer Vet Med Ass J 150(3):307-310 REF
01 Feb 1967 41.8 AM3
Agglutination test, Blood, Brucella abortus antigens, Brucellosis, Cattle.
Abstract: Several antigens were tested on the whole blood of almost 1,000 cattle from 8 ranches, and over 7,500 agglutination tests were examined. Tests were done at the site and time of collection of fresh blood, and on citrated blood the following day in the laboratory. Results of whole blood agglutination tests were generally similar to those obtained with standard plate seroagglutination technique. A distinct advantage of this rapid whole blood agglutination technique is a saving in time and labor in screening out reactors and suspects in a brucellosis eradication program.

14520-68
THE CONTROL AND ERADICATION OF SALMONELLOSIS IN A CLOSED PIG HERD.
T W Heard N E Jennett A R Linton
Vet Rec 82(4):92-99 REF
27 Jan 1968 41.8 V641
Feces, Infectious diseases, Livestock diseases, Nitrofurans, Salmonellosis, Swine.

14521-68
CORYNEBACTERIUM ULCERANS INFECTIONS IN A DAIRY HERD.
T M Biggs A Smith L M Cleverly P K Neave
Vet Rec 81(2):34-35
08 Jul 1967 41.8 V641
Cattle, Corynebacterium diphtheriae, Livestock diseases, Mastitis.
Abstract: Udder infection by this bacterium is infrequent. A high proportion of cows, however, may become infected. Cell counts and Whiteside results indicate that infections may be as severe as those of staphylococci and streptococci.

14522-68
DETECTION OF CLOSTRIDIUM BOTULINUM TYPE C CELLS AND TOXIN BY THE FLUORESCENT ANTIBODY TECHNIQUE.
B F Bunter M N Rosen
Avian Dis 11(3):345-353 REF
Aug 1967 41.8 AV5
Cells, Clostridium botulinum, Fluorescent antibody technic, Poultry, Toxins.
Abstract

30 14523-68

14523-68
VIRUS ISOLATION AUS DEN CAECALEN TONSILLEN DES HUHNES
(VIRUS ISOLATION FROM THE CECAL TONSILS OF HEN).
A S A Ismail
Hannover Tierarztl Hochsch Inaug Diss 19,92P.
1966 41.2 H19E
Poultry, Tonsils, Virus diseases (animals).

14524-68
RESEARCH ON THE PROPERTIES OF THE PATHOGENIC ASPERGILLUS;
THE MAJOR SPECIES ASPERGILLUS FUMIGATUS A. CLAVATUS, A.
FLAVUS. (FR.)
J Jacquet P Boutibonnes
Acad Vet France Bull 40(4), 169-180. REF.
Apr 1967 41.9 B24
Aspergillosis, Aspergillus, Aspergillus clavatus,
Aspergillus flavus, Aspergillus fumigatus, Livestock,
Morphology.

14525-68
SPORADIC BOVINE ENCEPHALOMYELITIS ISOLATION AND
IDENTIFICATION OF A PSITTACOSIS LYMPHOGRANULOMA
VENEREUM (PLV) AGENT.
Kalmer T Nobel P Neuman U Klopfer
Befuab Vet 24(1):51-43 REF
Mar 1967 41.8 B25
Animal histology, Brain diseases, Cattle, Livestock diseases,
Miyagawanella group viruses,
Sporadic bovine encephalomyelitis.

14526-68
THE VAGINAL MUCUS AGGLUTINATION TEST FOR BOVINE VIBRIOSIS.
J W Kendrick
Amer Vet Med Ass J 15D(5):495-498 REF
01 Mar 1967 41.8 AM3
Agglutination test, Cattle, Diagnosis, Vibrio fetus,
Vibriosis.
Abstract: The vaginal mucus agglutination test was found
to be a convenient, accurate method for diagnosing bovine vi-
briosis, based on both experimental and field observations.
Adaption of a human vaginal tampon decreased the cost and
increased the convenience of the test. Testing in Califor-
nia indicated that vibriosis is an important cause of bo-
vine infertility.

14527-68
STUDIES ON THE DIFFERENTIATION OF MYXOVIRUS INDUCED
INTERFERON AND ENDOGENOUS PYROGEN FROM RABBITS.
H Kohlhage W Follmann R Siegert
Life Sci 7(1):627-633 REF
01 Jun 1968 442.8 L62
Biochemistry, Fever, Interferon, Myxoviruses, Rabbits.
Abstract: The fever curve and interferon titer seen after
inoculation of rabbits with myxovirus show striking
similarities. The two substances are however not identical.
They can be separated partially by gel filtration and
totally by fractionated ethanol precipitation. Dialysis
against HCl-KCl buffer pH 2.0 and against urea or 2-
mercaptoethanol shows that the endogenous pyrogen is con-
siderably more labile than interferon.

14528-68
DISTRIBUTION OF VIRUS NEUTRALIZING ANTIBODIES TO DIFFERENT
STRAINS OF ROUS SARCOMA VIRUS AMONG (NORMAL) CHICKS.
A T Kravchenko A L Altstein E S Voronin
Arch Gesamte Virusforsch 22(3-4):356-363 REF
1967 446.3 AE23
Antibodies, Chicks, Rous sarcoma virus, Serodiagnosis.
Abstract: Antibodies of different strains of Rous sarcoma
virus were found in the sera of about 50 percent of chicks.
Forty percent of chicken sera investigated contained anti-
bodies to the Bryan strain. Antibodies to other strains
of Rous sarcoma virus were found in a significantly lower
proportion (3-15 percent). Study of the sera of horses im-
munized with allantoic cultures of influenza viruses reveal-
ed antibodies of the Bryan strain but not to the other
strains of Rous sarcoma virus.

14529-68
THE EFFECT OF MANAGEMENT ON THE INCIDENCE OF CLINICAL
JOHNE'S DISEASE.
A E Larsen E S Merkal
Amer Vet Med Ass J 152(12):1771-1773 REF
41.8 AM3
Animal husbandry, Calves, Cattle, Johne's disease,
Mycobacterium paratuberculosis.
Abstract: The incidence of Johne's disease and the ages at
which clinical signs were observed was compared in 2 herds,
one kept under poor sanitary conditions (herd A) and other
under good sanitary conditions (herd B). Sixty-two per
cent of the calves in herd A developed a sensitivity to
johnin compared with 6.2 per cent of calves in herd B. The
annual incidence of clinical Johne's disease was 4.2 per
cent in herd A and 1.4 per cent in herd B. The highest
incidence of clinical disease was observed in 6- and 7-year-
old cattle in herd A and in 6-, 8-, and 9-year-old cattle
in herd B. These figures were statistically significant,
and cattle in both herds were older when clinical signs of
disease was first observed than previous studies had report-
ed.

14530-68
DURATION OF ACQUIRED IMMUNITY OF THE CHICKEN TO EIMERIA
TENELLA INFECTION.
W D Leathem W C Burns
J Parasitol 54(2):227-232 REF
Apr 1968 448.8 J824
Chickens, Coccidiosis, Eimeria tenella, Immunity.
Abstract: The study suggests that chickens, immunized by
multiple dose of E. tenella, develop only a condition of
"relative immunity." Immunity, whereby the host is protect-
ed against fatal E. tenella infection, was found to be
effective for at least 105 days. Complete immunity was not
found in this study.

14531-68
SIMULTANEOUS VACCINATION OF CATTLE WITH CONTAGIOUS BOVINE
PLEUROPNEUMONIA AND GOAT-ADAPTED RINDERPEST VACCINE.
E P Lindley
Bull Epizoot Dis Afr 15(3):221-226
Sep 1967 41.8 E872
Cattle, Immunization, Pleuropneumonia, Rinderpest virus,
Viral vaccines.

14532-68
SCRAPIE IN A DORSET HORN EWE.
A I Littlejohn S Terlecki
Vet Rec 81(14):355-357 REF
30 Sep 1967 41.8 V641
Dorset Horn sheep, Livestock diseases, Scrapie.

14533-68
EPIZOOTIOLOGY OF BRUCELLOSIS IN A FLOCK OF SHEEP.
D W Luchsinger R K Anderson
Amer Vet Med Ass J 15D(9):1017-1021 REF
01 May 1967 41.8 AM3
Abortion, Agglutination test, Brucella abortus, Brucellosis,
Cattle, Sheep.
Abstract: Brucella abortus type infection was confirmed in
sheep by seroagglutination titers. Ewes aborted or gave
birth to weak lambs. B. abortus type I was isolated from
cattle maintained with the sheep. The extensive spread of
infection within this flock of sheep was attributed to
animal husbandry practices and ecologic conditions.

14534-68
IODINE UPTAKE BY OVA OF HENS GIVEN EXCESS IODINE AND EFFECT
UPON OVA DEVELOPMENT.
N A Marcilese R R Harms R M Valsecchi L E Arrington
J Nutr 94(2):117-120
Feb 1968 389.8 J82
Chickens, Iodine isotopes, Ova.

14535-68
A CLINICAL AND PATHOLOGIC STUDY OF THE MASTITIS-METRITIS
AGALACTIA SYNDROME OF SOWS.
C E Martin R E Booper C R Armstrong H E Amstutz
Amer Vet Med Ass J 151(12):1629-1634 REF
15 Dec 1967 41.8 AM3
Agalactia, Mastitis, Meritis, Swine.
Abstract

14536-68
SALMON POISONING DISEASE. IV. TRANSMISSION OF THE
DISEASE TO DOGS BY NANOPHYETUS SALMINCOLA EGGS.
P A Nyberg S E Knapp R E Millemann
J Parasitol 53(4):694-699
Aug 1967 448.8 J824
Dogs, Nanophyetus salmincola, Neorickettsia helminthoeca,
Trematoda.
Intraperitoneal injection
Abstract

14537-68
COMPARISON OF BROMEN MICROBIAL INHIBITION RESULTING FROM
VARIOUS ESSENTIAL OILS ISOLATED FROM RELATIVELY
UNPALATABLE PLANT SPECIES.
R K Oh M R Jones W M Longhurst
Appl Microbiol 16(1):39-44
Jan 1968 448.3 AP5

Cattle, Deer, Essential oils, Microorganisms, Rumen, Weeds.
Abstract

14538-68
EVALUATION OF UREA, BIURET, UREA PHOSPHATE AND URIC ACID AS NPN SOURCES FOR CATTLE.
E B Oltjen I I Slyter A J Kczak E E Williams
J Nutr 94(2):193-202 BEF
Feb 1968 385.8 J82
Animal nutrition, Biuret, Carbamide phosphoric acid, Cattle, Urea, Uric acid.
Nonprotein nitrogen
Abstract

14539-68
DIROFILARIA TENUIS CONTAINING MICROFILARIAE IN MAN.
G Pacheco E L Schofield
Amer J Trop Med Hyg 17(2):180-182
Mar 1968 448.8 AM326
Diethylcarbamazine, Dirofilaria, Human diseases, Leukocytosis.
D. tenuis adult female and probable microfilaria found in man. The natural host is raccoon.

14540-68
THE RELATIONSHIP OF EXPOSURE RATE AND EXPOSURE TIME TO RADIATION INJURY IN SHEEP.
N F Page E J Ainsworth G F Leong
Radiat Res 33(1):94-106 REF
Jan 1968 384.8 R11
Cobalt isotopes, Gamma rays, Injuries, Radiation, Sheep.
Abstract

14541-68
RESISTANCE OF CATTLE TO BRUCELLA ABORTUS FOLLOWING VACCINATION AT TWO AND THREE MONTHS OF AGE.
D R Redman E I Deyoe N B King
Amer Vet Med Ass J 150(4):403-407 BEF
15 Feb 1967 41.8 AM3
Abortion, Agglutination test, Brucella abortus, Cattle, Immunization.
Abstract: Of heifers vaccinated at 2 months, 3 became infected and 2 aborted. Three heifers vaccinated at 3 months became infected, 2 of which aborted. Of the pregnant nonvaccinated controls, 4 became infected and aborted. Postvaccinal agglutinin titers were lower and receded to a negative status sooner in cattle vaccinated when 2 and 3 months old. Resistance to infection of 2- and 3-month-old vaccinated cattle compared favorably with resistance previously found in cattle vaccinated when 4 to 8 months old.

14542-68
ETIOLOGY AND DISSEMINATION OF THE BLACKHEAD DISEASE SYNDROME IN TURKEYS AND CHICKENS.
W M Reid
Exp Parasitol 21(2):249-275 BEF
Oct 1967 436.8 EX7
Arthropoda, Blackhead, Chickens, Earthworms, Heterakis gallinarum, Histomonas meleagridis, Turkeys.

14543-68
STUDIES ON THE MODE OF ACTION OF QUINOLONE AND PYRIDONE COCCIDIOSTATS.
J P Ryley
J Parasitol 53(5):1151-1160 BEF
Dec 1967 448.8 J824
Benzyloxy-6-n-butyl-3-methoxycarbonyl quinol-4-one, =7-, Biochemistry, Buquinolate, Chicks, Coccidiosis, Coccidiostats, Eimeria brunetti, Eimeria tenella, Meticlorpindol, Pyridone, Quinclore.

14544-68
REACTIONS FOLLOWING INTRAMAMMARY INFUSION OF E. COLI ENDOTOXIN.
C W Schalm G Ziv-Silberman
Vet Rec 82(4):100-103
27 Jan 1968 41.8 VE41
Cattle, Escherichia coli, Lipopolysaccharides, Livestock diseases, Mastitis.
Description of clinical characteristics of sterile endotoxin mastitis observed in nine cows following intermammary infusions of endotoxin.

14545-68
CANINE VACCINATION IN A RURAL OHIO COUNTY.
F R Schnurrenberger J B Russell
Amer Vet Med Ass J 150(6):621-623 REF
15 Mar 1967 41.8 AM3
Canine distemper, Dogs, Immunization, Rabies, Surveys.
Abstract: A door-to-door census of 33 percent of the households in a rural county in northwestern Ohio revealed that only 22.5 percent of the dogs had been vaccinated against distemper and 8.6 percent against rabies. Vaccination rates were higher among females, purebreds, and dogs over 1 year of age. Geographic location, license status, number of dogs owned, and household size seemed unrelated to vaccination status.

14546-68
THE RECOVERY OF HOG CHOLERA VIRUS FROM SWINE WITH AN IN UTERO INFECTION.
W L Schwartz R F Solorzano E B Hamilton J E Thigpen
Amer Vet Med Ass J 150(2):192-195 REF
15 Jan 1967 41.8 AM3
Baby pigs, Hog cholera virus, Serum neutralization test, Swine, Uterus.
Abstract: Hog cholera virus was detected in swine 5 months after classical signs and lesions had ceased. The virus was propagated in pregnant sows given anti-hcg cholera serum. The occurrence of stillbirth, deformities, and central nervous system disturbances in new born pigs was indicative of an in-utero hog cholera virus infection. Serum-neutralizing hog cholera antibodies were demonstrated in 2 pigs that were euthanatized at 3 months of age. There were no apparent signs of illness in these pigs.

14547-68
FILARIASIS OF ELEPHANTS IN CEYLON.
P Seneviratna J B Jayasinghe S R Jainndeen
Vet Rec 81(27):716-717 REF
30 Dec 1967 41.8 VE41
Elephants, Filariasis.
22 Domestic elephants infected with what is probably a new species.

14548-68
A COCCIDIA-LIKE ORGANISM ASSOCIATED WITH SUBCUTANEOUS GRANULOMATA IN A DOG.
G C Shelton L D Kintner D O MacKintosh
Amer Vet Med Ass J 152(3):263-267 REF
01 Feb 1968 41.8 AM3
Animal histology, Coccidiosis, Dogs, Granuloma.
Abstract: A disease characterized by proliferating subcutaneous nodules and a nonfebrile wasting illness was observed in a 6-month-old Collie. Histopathologic studies revealed parasitic organisms which morphologically and biologically resembled a subcutaneous form of coccidiosis. The dog apparently recovered; died 2 months later of canine distemper. Organisms resembling coccidia remained in subcutaneous tissues at the time of death.

14549-68
DEVELOPMENT OF A CELL CULTURE SYSTEM SUSCEPTIBLE TO MEASLES, CANINE DISTEMPER, AND RINDERPEST VIRUSES.
A Shishido K Yamanouchi S Rikita T Sato A Fukuda F Kohune
Arch Gesamte Virusforsch 22(3-4):364-380 REF
1967 448.3 AB23
Canine distemper virus, Chick embryos, Culture media, Measles virus, Rinderpest virus, Tissue culture.
Abstract: By using Vero cell adapted strains of canine distemper and rinderpest viruses, techniques of infectivity titration and virus neutralization in Vero cells were established. Comparative studies of cytopathology and growth characteristics of canine distemper, rinderpest, and measles viruses indicated that the behavior of the three viruses in Vero cells is almost the same. The Vero cell system was suggested as a suitable host for the comparative study of the serologic and biologic relationships among measles, canine distemper, and rinderpest viruses.

14550-68
IMMUNOGENIC PROPERTIES OF BABESIAL SERUM ANTIGENS.
K B Sihinovic S Sihinovic M Ristic B W Cox
J Parasitol 53(6):1121-1129 BEF
Dec 1967 448.8 J824
Antibodies, Antigens, Immunization, Piroplasmosis, Serum.
Abstract: The presence of antigens found in the sera of horses, dogs, and rats with acute babesiosis was correlated with the appearance and persistence of parasitemia. The data indicate that these serum antigens are probably the significant immunizing substances associated with acute babesiosis. They show a remarkable lack of parasite species specificity in both serologic and immunogenic properties.

14551-68
RELATIONSHIP BETWEEN CALCIUM AND MAGNESIUM BINDING TO FRACTION I CHLOROPLAST PROTEIN AND BLOAT.
F B Stifel B L Vetter R S Allen
J Agr Food Chem 16(3):500-504
May 1968 381 J8223

30 14552-68

Alfalfa, Elcat, Calcium, Cattle, Magnesium, Plant proteins, Sheep.

14552-68
PURIFICATION OF AMPHOTERIC AND BASIC ANTIBIOTICS. PATENT 3,376,339.
G Swanhelm
Us Patent Office Offic Gaz 849(1):205
02 Apr 1968 156.65 CF2
Antibiotics, Patents, Polymyxin B, Streptomycin, Tetracycline.

14553-68
BRUCELLOSIS. INTERSTATE MOVEMENT.
Fed Regist 33(72):5678
12 Apr 1968 L1.451
Brucellosis, Cattle, Interstate commerce.

14554-68
BRUCELLOSIS. DESIGNATION OF MODIFIED CERTIFIED BRUCELLOSIS AREAS, PUBLIC STOCKYARDS, SPECIFICALLY APPROVED STOCKYARDS, AND SLAUGHTERING ESTABLISHMENTS. MODIFIED CERTIFIED BRUCELLOSIS AREAS.
Fed Regist 32(191):13757
03 Oct 1967 L1.451
Brucellosis, Cattle, Interstate commerce.

14555-68
BRUCELLOSIS. PUBLIC STOCKYARDS.
Fed Regist 32(244):18086-18087
19 Dec 1967 L1.451
Brucellosis, Infections diseases, Livestock, Stockyards.

14556-68
BRUCELLOSIS IN CATTLE. NOTICE OF PROPOSED RULE MAKING.
Fed Regist 33(12):633-634
18 Jan 1968 L1.451
Brucellosis, Cattle, Interstate commerce.

14557-68
CYSTICERCOSIS. RESTRICTIONS ON INTERSTATE MOVEMENT OF CATTLE; QUARANTINE.
Fed Regist 33(71):5613
11 Apr 1968 L1.451
Cattle, Echinococcosis, Interstate commerce.

14558-68
CYSTICERCOSIS. RESTRICTIONS ON INTERSTATE MOVEMENT OF CATTLE. QUARANTINE.
Fed Regist 33(76):5943
18 Apr 1968 L1.451
Cattle, Echinococcosis, Interstate commerce.

14559-68
SCABIES IN CATTLE. AREAS QUARANTINED BECAUSE OF SCABIES.
Fed Regist 33(19):1069
27 Jan 1968 L1.451
Cattle, Interstate commerce, Quarantine, Scabies.

14560-68
BRUCELLOSIS. DESIGNATION OF MODIFIED CERTIFIED BRUCELLOSIS AREAS, PUBLIC STOCKYARDS, SPECIFICALLY APPROVED STOCKYARDS, AND SLAUGHTERING ESTABLISHMENTS. MODIFIED BRUCELLOSIS AREAS.
Fed Regist 32(218):15577-15578
09 Nov 1967 L1.451
Brucellosis, Cattle.

14561-68
ANTIBIOTICS USED IN FOOD-PRODUCING ANIMALS.
Fed Regist 33(71):5616
11 Apr 1968 L1.451
Antibiotics, Eggs, Livestock, Metabolites, Milk, Public health, Residues, Tissues.

14562-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES.
Fed Regist 33(75):5896
17 Apr 1968 L1.451
Arsanilic acid, Enguinolate, Chickens, Chlortetracycline, Coccidiosis, Enteritis, Feed, Nitro-4-hydroxyphenylarsonic acid, 3-, Respiratory diseases, Synovitis.

14563-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES ERYTHROMYCIN THIOCYANATE AND DIMETRIDAZOLE.
Fed Regist 33(55):4751
20 Mar 1968 L1.451
Blackhead, Dimetridazole, Erythromycin thiocyanate, Feed additives, Tolerances, Turkeys.

14564-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES ERYTHROMYCIN AND DIETHYLSTILBESTROL.
Fed Regist 32(159):11896
17 Aug 1967 L1.451
Cattle, Diethylstilbestrol, Erythromycin, Fattening, Feed additives, Liver diseases.

14565-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE ENQUINOLATE.
Fed Regist 33(55):4751
20 Mar 1968 L1.451
Enguinolate, Chickens, Coccidiostats, Feed additives.

14566-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE TYLOSIN.
Fed Regist 33(55):4751
20 Mar 1968 L1.451
Chickens, Feed additives, Respiratory diseases, Tylosin.

14567-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE SODIUM ARSANILATE.
Fed Regist 246(32):20669
21 Dec 1967 L1.451
Blackhead, Feed additives, Sodium arsanilate, Turkeys.

14568-68
NITRODAN; PROPOSED REVOCATION.
Fed Regist 32(206):14697
24 Oct 1967 L1.451
Anthelmintics, Dogs, Drugs, Nitrodan, Regulations.

14569-68
NOTICE OF FILING OF PETITIONS FOR FOOD ADDITIVES CARBARSONE (NOT U.S.P.), ZINC BACITRACIN, ZOALENE.
Fed Regist 33(86):6753
02 May 1968 L1.451
Blackhead, Carbarsone, Coccidiosis, Feed additives, Sinusitis, Turkeys, Zoalene.

14570-68
NITRODAN; NOTICE OF WITHDRAWAL OF APPROVAL OF NEW-DRUG APPLICATION.
Fed Regist 32(206):14698
24 Oct 1967 L1.451
Ancylostomatidae, Anthelmintics, Dogs, Drugs, Nitrodan, Regulations, Toxocara, Uncinceria.

14571-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES DIMETRIDAZOLE, RESERPINE.
Fed Regist 33(11):599
17 Jan 1968 L1.451
Blackhead, Dimetridazole, Feed additives, Reserpine, Turkeys.

14572-68
ON THE LONGEVITY OF CYSTICERCUS BOVIS IN VARIOUS ORGANS IN A BOVINE.
L W Van Den Beever
J Parasitol 53(6):1168
Dec 1967 448.8 J824
Cattle, Cysticercus, Echinococcosis, Longevity, Viscera.

14573-68
RISK OF RESISTANCE TO CHLORAMPHENICOL.
D A Walker A B Taylor R Richardson
Vet Rec 82(12):361
23 Mar 1968 41.8 V641
Antibiotics, Chickens, Chloramphenicol, Erythromycin, Escherichia coli, Mycoplasmosis, Preventive medicine.

14574-68
THE TRANSMISSION OF A SPECIFIC ENCEPHALOPATHY OF MINK TO THE GOAT.
I Zlotnik R M Barlow
Vet Rec 81(2):55-57
08 Jul 1967 41.8 V641
Brain diseases, Goats, Minks.
Compared with scrapie and mink encephalopathy.

Arthropods

14575-68
BIOLOGICAL NOTES ON EYE-FREQUENTING MOTHS FROM N. THAILAND.
W Buttiker
Schweiz Entomol Ges Mitt 39(3/4):151-179 REF
15 Apr 1967 420 SH8
Eyes, Geometridae, Insect behavior, Insect biology, Livestock, Lycaenidae, Mammals, Mermis, Noctuidae, Pyralidae.

14576-68
FOROCEPHALOSIS CAUSED BY ARMILLIFER (METTORHYNCHUS) ARMILLATUS (PENTASTOMIDA) WYMAN 1847 IN CATTLE AND PIG (MALI AND UPPER VOLTA). (FR.)
A Challier B Gidel S Traore
Rev Elevage Med Vet Pays Trop (N.S.)20(2), 255-259.
1967 41.8 B3282
Armillifer armillatus, Cattle, Porocephalosis, Swine.
Abstract

14577-68
STUDIES ON THE TRANSMISSION OF SIMIAN MALARIAS. II. TRANSMISSION OF THE B STRAIN OF PLASMODIUM KNOWLESI BY ANOPHELES BALABACENSIS BALABACENSIS.
W E Collins F G Contacos E G Guinn
J Parasitol 53(4):841-844
Aug 1967 448.8 J824
Anopheles balabacensis, Insect vectors, Malaria, Monkeys, Plasmodium knowlesi.
Abstract

14578-68
SOME NOTES ON FLEAS (SIPHONAPTERA) OF DOMESTIC ANIMALS IN NORTHERN TANZANIA (EAST AFRICA).
J E Cooper
Entomologist (London) 101(1257):43-45
Feb 1968 421 EN8
Livestock, Siphonaptera.

14579-68
ABERRANT HYPODERMA BOVIS INFECTION IN A COW.
J B Greve D B Cassidy
Amer Vet Med Ass J 150(6):627-628 REF
15 Mar 1967 41.8 AM3
Cattle, Hypoderma bovis.
Abstract: An aberrant 3rd instar Hypoderma bovis was found in a lymph node from a cow. Grossly, the result ant lymphadenitis resembled tuberculosis. The possibility is suggested that Hypoderma larvae may persist for several months anaerobically in bovine tissues.

14580-68
CONTROL OF CHICKEN BODY, SHAFT, AND WING LICE ON LAYING HENS BY SELF-TREATMENT WITH INSECTICIDE DUSTS AND GRANULES.
B A Hoffman E E Hogan
J Econ Entomol 60(6):1703-1705
Dec 1967 421 J822
Carbophenothion, Chemical control (insects), Chlorc-1-(2,4,5-trichlorophenyl)vinyl =dimethyl =phosphate =, Dusting, Imidan, Lipeurus caponis, Menacanthus stramineus, Menopon gallinae, Poultry, Zytron.
Abstract

14581-68
THE POSSIBLE EXISTENCE OF TWO STRAINS OF OSTERTAGIA OSTERTAGI.
J F Michel
Vet Rec 81(27):718
30 Dec 1967 41.8 V641
Cattle, Immunity, Larvae, Ostertagia ostertagi.

14582-68
A BIBLIOGRAPHICAL GUIDE TO THE ANIMAL PARASITES AND ARTHROPOD PESTS OF CEYLON.
B A P Senadhira
Ceylon J Sci Biol Sci 6(2):39-216
Feb 1967 475 C33
Animals, Artbropoda, Bibliography, Insect pests, Parasitism.

14583-68
THE FACE FLY, MUSCA AUTUMNALSS (DER GEER), IN MANITOBA.
D L Smith
Entomol Soc Manitoba Proc 22:30-32,MAP
1966 420 EN88
Cattle, Musca autumnalis, Surveys, Zoogeography.
Abstract

14584-68
ECTOPARASITES OF CANADIAN BIRDS AND MAMMALS.
N Wilson
Entomol Soc Wash Proc 69(4):349-353 REF
Dec 1967 420 W27
Birds, Ixodides, Mammals, Mites, Parasitic insects, Parasitism.

Parasites

14585-68
SHEEP LIVER FLUKE, FASCIOLA HEPATICA L., 1758 FROM BUFFALO, BISON BISON (L., 1758) IN WESTERN WYOMING.
R C Bergstrom
J Parasitol 53(4):724
Aug 1967 448.8 J824
Bison, Fasciola hepatica.

14586-68
FASCIOLIASIS: FIELD TRIALS OF NITROXYNIL IN SHEEP.
A J Colegrave
Vet Rec 81(12):343-348
23 Mar 1968 41.8 V641
Anthelmintics, Fascioliasis, Nitroxinil, Sheep.
Abstract: 20 mg. per kg. injected subcutaneously arrested mortality in acutely affected flocks. In advanced outbreaks death was hastened by the drug. 10 mg. per kg. brought good clinical response and was well tolerated by sheep.

14587-68
VETERINARY THERAPEUTICS WITH EMPHASIS ON ANTHELMINTICS.
B B Dunlop
Fed Amer Soc Exp Biol Fed Proc 26(4):1227-1243 REF
Jul 1967 442.9 F31P
Anthelmintics, Helminthiasis, Livestock diseases, Pesticides, Therapeutics, Veterinary medicine.

14588-68
THE HOST-PARASITE INTERFACE OF CYATHOCOTYLE BUSHIENSIS KRAN, 1962 (TREMATODA, STRIGEOIDEA). II. ELECTRON MICROSCOPE STUDIES ON THE TEGUMENT.
D A Erasmus
J Parasitol 53(4):703-714 REF
Aug 1967 448.8 J824
Cyathocotyle bushiensis, Ducklings, Electron microscopy, Trematoda.
Abstract

14589-68
ULTRASTRUCTURAL ASPECTS OF OOCYTE DEVELOPMENT AND SHELL FORMATION IN ASCARIS LUMBRICOIDES.
W E Foor
J Parasitol 53(6):1245-1261 REF
Dec 1967 448.8 J824
Animal physiology, Ascariasis, Ascaris lumbricoides, Cytology, Oogenesis.
Abstract: Oocytes of A. lumbricoides are attached throughout their development to an axial rachis by means of cytoplasmic bridges. Development of the oocytes is synchronous. The fine structure of the uterine cells is that of typical secretory cells.

14590-68
ON A NEW SPECIES OF THE NEMATODE GENUS CHABERTIA RAILLIET AND HENRY, 1909 FROM SHEEP IN KASHMIR.
D N Fotedar N Bambroo
Indian J Helminthol 19(2):192-196 REF
Sep 1967 436.8 IN2
Chabertia himalayana, Sheep, Taxonomy.

14591-68
ACTION OF NAPHTHALOPHOS AND YOMESAN AGAINST ASCARIDIA GALLI AND HETERAKIS GALLINARUM IN CHICKENS.
T S Foxx M F Hansen

30 14592-68

Avian Dis 11 (4):680-683
Nov 1967 41.8 AV5
Anthelmintics, Ascaridia galli, Cecal worms, Chickens, Diarrhea, Heterakis gallinarum, Naphthalophos, Yomesan.

14592-68
HISTOCHEMICAL STUDIES OF CARBOXYLIC ESTERASE ACTIVITY IN FASCIOLA HEPATICA.
D W Halton
J Parasitol 53(6):1210-1216 REF
Dec 1967 448.8 J824
Acetylcholinesterases, Carboxylesterase, Fasciola hepatica, Histochemistry, Nematodes, Sheep.

14593-68
A SURVEY OF INTESTINAL HELMINTHS IN DOGS FROM ALBUQUERQUE NEW MEXICO.
E F Hathaway
J Parasitol 53(6):1240
Dec 1967 448.8 J824
Cestoda, Climate, Dogs, Helminthology, Intestines, Nematodes, Surveys.

14594-68
TOXOPLASMA AND TOXOPLASMOSIS.
L Jacobs
Advances Parasitol 5:1-45 REF
1967 436.8 AD9
Animals, Epidemiology, Toxoplasmosis.
Chiefly medical parasitology.

14595-68
HISTOCHEMICAL STUDY OF DRUG EFFECTS ON MICE INFECTED WITH TRICHINELLA SPIRALIS.
Z Kozar J Zarzycki B Seniuta T Martynowicz
Exp Parasitol 21(2):173-185 REF
Oct 1967 436.6 EX7
Enzymes, Glycogenesis, Histochemistry, Mice, Ribonucleic acid, Thiazolyl)-benzimidizole, 2-(4-, Trichinella spiralis, Trichlorfon.
Abstract: The changes suggested an inhibition in the metabolism of the muscle tissue, reduced activity of alkaline phosphatase, succinic acid dehydrogenase, and "a" phosphorylase. These drugs also inhibited glycogen synthesis in the larvae and caused a reduction in RNA content.

14596-68
THE STRUCTURE OF THE CLEANING BRUSH ON THE PEDIPALPS OF SOME AFRICAN AMBLYPYGI (ARACHNIDA).
B P Lawrence
J Zool 154(1):1-8 REF
Jan 1968 410.9 L84P
Electron microscopy, Gastrointestinal system, Nematodes, Nippostrongylus brasiliensis.

14597-68
IMMUNITY OF DOGS TO ANCYLOSTOMA BRAZILIENSE INFECTION FOLLOWING VACCINATION WITH X-IRRADIATED ANCYLOSTOMA CANINUM LARVAE.
T A Miller
Amer Vet Med Ass J 150(5):508-515 REF
01 Mar 1967 41.8 AM3
Ancylostoma braziliense, Ancylostoma caninum, Dogs, Immunity, Immunization, X-rays.
Abstract: This interspecific protection, following use of x-irradiated A. caninum vaccine in pups, may have been practical significance in prevention of creeping eruption associated with infection in man with A. braziliense larvae.

14598-68
THE BIOLOGY OF THE ACANTHOCEPHALA.
W L Nicholas
Advances Parasitol 5:205-246 REF
1967 436.8 AD9
Acanthocephala, Arthropoda, Biology.
Includes host-parasite interaction in vertebrate and arthropod hosts.

14599-66
METABOLIC TRANSFORMATION OF 14C-GLUCOSE INTO TISSUE PROTEINS OF ANCYLOSTOMA CANINUM.
M E Perez-Gimenez A Gimenez K Gaede
Exp Parasitol 21(2):215-223 REF
Oct 1967 436.8 EX7
Amino acids, Aminotransferases, Ancylostoma caninum, Carbon isotopes, Glucose, Metabolism, Proteins, Radioactive tracers.
Abstract: During the present study c-14-glucose was taken up, actively metabolized by A. caninum, and partially transformed into amino acids and proteins of the parasite. Aminating enzymes are present in the worm homogenates.

14600-68
GROWTH OF THE CESTODE RAILLIETINA CESTICILLUS IN BACTERIA-FREE CHICKENS.
W M Reid H Rotero
Exp Parasitol 21(2):149-153
Oct 1967 436.8 EX7
Cestoda, Chickens, Germ-free life, Raillietina cesticillus.
Abstract: Survival rate of antibiotic-sterilized cysticercoids was 21 worms from 145 cysticercoids in bacteria-free tapeworms compared to 30 worms from 133 cysticercoids in similarly parasitized control birds. These trials demonstrated no contribution to or interference from the normal bacterial flow of the digestive tract of the fowl in establishment of infection or in growth rate of the cestode R. cesticillus.

14601-68
THE PATHOLOGY OF FASCIOLA HEPATICA INFECTION IN PIGS: A COMPARISON OF THE INFECTION IN PIGS AND OTHER HOSTS.
J G Ross C Dow J R Todd
Brit Vet J 123(7):317-322 REF
Jul 1967 41.8 V643
Fascioliasis, Laboratory animals, Livestock, Swine.
Abstract

14602-68
ON THE PSEUDOPHYLLIDEAN GENUS SPIROMETRA MUELLER, 1937 IN INDIAN DOGS.
V K Sahasrabudhe R L Shah
Indian J Helminthol 19(2):87-96 REF
Sep 1967 436.8 IN2
Dogs, Spirometra, Taxonomy.

14603-68
INFLUENCE OF PH AND OF SALTS ON THE DEVELOPMENT OF EGGS OF FASCIOLA HEPATICA. (EN)
M Saint Guillain M Pechenr
111(4):251-257
Jun 1967 41.8 AN78
Fasciola hepatica, Hydrogen-ion concentration, Salts.
English and French summaries
Abstract

14604-68
THE PRE-INFECTIVE LARVAL STAGES OF STEPHANOFILARIA ASSAMENSIS, THE CAUSATIVE PARASITE OF RUMPSORE OF INDIAN CATTLE.
H D Srivastava S C Dutt R C Malviya
Indian J Helminthol 19(2):81-86 REF
Sep 1967 436.8 IN2
Cattle, Insect vectors, Morphology, Musca conducens, Stephanofilaria assamensis, Verminous dermatitis.

14605-68
INCIDENCE OF TOXOCARA CANIS AND OTHER HELMINTH PARASITES OF DOGS IN MEXICO CITY.
T J Styles
J Parasitol 53(4):822-823 REF
Aug 1967 448.8 J824
Ancylostoma caninum, Dipylidium caninum, Dogs, Echinococcus granulosus, Parasites, Taenia, Toxocara canis.
Abstract

14606-68
EXPERIMENTAL ASCARIDIASIS: INFLUENCE OF CHICKEN AGE AND INFECTIVE EGG DOSE ON STRUCTURE OF ASCARIDIA GALLI POPULATIONS.
M S Tongson E M McCraw
Exp Parasitol 21(2):160-172 REF
Oct 1967 436.8 EX7
Aging, Ascariasis, Ascaridia galli, Chickens.
Abstract: The recovery of A. galli from domestic fowl given 1000 infective eggs when 2-,4-,6-,8-,12, and 16-weeks old presented a graded population picture with the total worm burden declining with age. Most worms resided in the intestine between the bile duct and Meckelis diverticulum. Both age at infection and infective dose influence the time of appearance of larval precipitates.

40 COMMODITY PROTECTION

Storage Diseases

14607-68
AFLATOXIN AND ITS CONTROL.
I A Goldblatt
Econ Bot 22(1):51-62, REF.
Jan 1968 450 EC7
Aflatoxin, Aspergillus, Feed toxicity, Food contamination, Metabolites, Peanuts.

14608-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES.
Fed Regist 24(32):20668-20669
21 Dec 1967 11.451
Cotton bags, Dried food, Insecticides, Piperonyl butoxide, Pyrethrum.

Storage Diseases

14609-68
WHAT VETERINARIANS CAN DO ABOUT THE SALMONELLA PROBLEM.
G B Snoeyenbos
Amer Vet Med Ass J 151(12):1795-1800 REF
15 Dec 1967 41.8 AM3
Food contamination, Livestock, Man, Salmonella, Wildlife.

Arthropods

14610-68
THE CONSERVATION OF BUILDING TIMBERS; A STUDY OF THE INCIDENCE OF WOOD-BEING INSECTS AND WOOD-ROTTING FUNGI IN BUILDINGS AND OTHER CONTRIBUTIONS TOWARDS THE CONSERVATION OF BUILDING TIMBERS. TA422.E5.
B E Hickin
144 P. ILNDON BUTTERWORTH
1967
Buildings, Fungus diseases (plants), Lumber preservation, Wood borers, Wood destroying fungi.

14611-68
WHAT'S BEST FOR CONTROLLING STORED PRODUCTS INSECTS, INCLUDING ROACHES.
J Patton F Fisher I N Pehr
Pest Contr 35(11):8,9,11
Nov 1967 445.8 EX8
Butonate, Chemical control (insects), Diazinon, Penthion, Naled, Kennel, Tribolium castaneum.

14612-68
WOOD- AND BARK-FEEDING COLEOPTERA OF FELLED WESTERN LARCH IN BRITISH COLUMBIA.
D A Ross
Entomol Soc Brit Columbia Proc 64:23-24
01 Aug 1967 420 B77
Coleoptera, Dendroctonus pseudotsugae, Forest insects, Larix occidentalis, Logs, Melanophila drummondi, Serropalpus substriatus, Tetropium velutinum.
Abstract

Microbial Contamination

14613-68
BARBECUED CHICKEN AS A SOURCE OF FOOD POISONING. (ABSTRACT).
I E Erdman T Barr B Pivnick J I Pataki
Can J Public Health 59(1):32
Jan 1968 449.8 P964
Barbecueing, Chickens, Convenience food, Food poisoning, Staphylococcus.

14614-68
THE EFFECT OF PH ON THE MULTIPLICATION OF LISTERIA MONOCYTOGENES IN GRASS SILAGE MEDIA.
A D Irvin
Vet Rec 82(4):115-116
27 Jan 1968 41.8 V641
Grass silage, Hydrogen-ion concentration, Listeria monocytogenes.
In relation to listeriosis outbreaks in cattle and sheep

14615-68
STAPHYLOCOCCUS FOOD POISONING FROM BARBECUED CHICKEN.
B Pivnick T B B Barr I E Erdman J I Pataki
Can J Public Health 59(1):30-31
Jan 1968 449.8 P964
Barbecueing, Chickens, Convenience food, Food poisoning, Staphylococcus.

50 ENVIRONMENTAL CONTAMINATION

14616-68
GAS CHROMATOGRAPHY. A METHOD FOR THE DETERMINATION OF PESTICIDE RESIDUES. (SW)
M Akerblom
Swed Stat Vaxtskyddsanst Vaxtskyddsnotiser 31(2):19-21
1967 464.9 S43V
Chromatography, Pesticides, Soil contamination.

14617-68
SPECTROPHOTOMETRIC DETERMINATION OF SEVIN IN NATURAL WATERS.
O M Aly
Amer Water Works Ass J 59(7):906-912 REF
Jul 1967 292.9 AM32J
Carbamates, Carbaryl, Chemical analysis, Insecticide residues, Spectrophotometry, Water pollution.
Abstract: A method has been developed of sevin and its hydrolysis product, 1-naphthol. It involves the extraction with chloroform and the hydrolysis of Sevin to 1-naphthol, which reacts with 4-aminoantipyrine and an oxidizing agent in alkaline medium to form a red-colored complex. Ammonia-phosphate buffer was used. Free 1-naphthol is removed by a basic aqueous solution and can be determined separately.

14618-68
USE OF SOIL CONTAMINATED WITH SR-90 FOR SEED PRODUCTION.
E J Evans A J Dekker
Can J Plant Sci 47(3):319-320
May 1967 450 C16
Barley, Feed grains, Oats, Seeds, Soil contamination, Soybeans, Strontium isotopes, Wheat.

14619-68
PERSISTENCE AND BIODEGRADATION OF FOUR COMMON ISOMERS OF BENZENE HEXACHLORIDE IN SUBMERGED SOILS.
I C Mac Rae K Raghu T F Castro
J Agr Food Chem 15(5):911-914
Sep 1967 381 J8223
Benzene hexachloride, Carbon isotopes, Chilo suppressalis, Chromatography, Degradation, Insecticide residues, Lindane, Radioactive tracers, Rice, Soil microorganisms.
Abstract

14620-68
WATER CHLORINATION CONTROLS PSEUDOMONAS AERUGINOSA IN A RABBITRY.
R A McDonald A E Pinheiro
Amer Vet Med Ass J 151(7):863-864 REF
01 Oct 1967 41.8 AM3
Chlorine, Pseudomonas aeruginosa, Rabbits, Water treatment.

14621-68
DEGRADATION OF N-(MERCAPTOMETHYL)PHTHALIMIDE-S-(O,O-DIMETHYLPHOSPHORODITHIOATE) (IMIDAN) IN SOILS.
J J Menn J B McBain
J Econ Entomol 58(5):875-878
Oct 1965 421 J822
Degradation,
Dimethyl S-phthalimidomethyl phosphorodithioate, O,O-, Insecticide residues, Soil hydrolysis, Soils.

55 RESIDUES

14622-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. THIABENDAZOLE.
Fed Regist 33(82):6343-6344
26 Apr 1968 L1.451
Bananas, Fungicide residues, Thiazolyl)-benzimidazole, (2-(4-, Tolerances.

14623-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. S-ETHYL HEXAHYDRO-1 H-AZEPINE-1-CARBOTHIOATE.
Fed Regist 32(212):15107
01 Nov 1967 L1.451
Ethyl hexahydro-1h-azepine-1-carbothioate, S, Herbicide residues, Rice, Tolerances.

14624-68
A METABOLIC STUDY OF 3-(3,4-DICHLOROPHENYL)-1,1-DIMETHYLUREA (DIURON) APPLIED TO CORN SEEDLINGS.
J Agr Food Chem 16(3):426-433
May 1968 381 J8223
Carbon isotopes, Corn, Diuron, Herbicide residues, Metabolites, Pesticide analysis, Radioactive tracers.

14625-68
WHAT:S BEHIND THE DDT HASSLE?.
131(4):28,30,120
Apr 1968
Ddt, Pesticide residues, Tolerances.

14626-68
TOXIC GROUNDNUT MEAL: THE RELATIONSHIP BETWEEN AFLATOXIN B1 INTAKE BY COWS AND EXCRETION OF AFLATOXIN M, IN MILK.
R Allcroft R A Roberts
Vet Rec 82(4):116-118
27 Jan 1968 41.8 V641
Aflatoxin, Cattle, Milk, Peanut meal.
Concentration in milk in relation to that in feed .

14627-68
QUANTITATIVE MEASUREMENT OF COMBINATIONS OF ARAMITE, DDT, TOXAPHENE, AND ENDRIN IN CROP RESIDUES.
T E Archer
Bull Environ Contamination Toxicol 3(2):71-79
Mar 1968 RA1270.P35A1
Aramite, Chromatography, Crops, Ddt, Endrin, Insecticide residues, Pesticide analysis, Toxaphene.

14628-68
BREAKDOWN OF 14C-CHLORFENVINPHOS INSECTICIDE ON CROPS.
K I Beynon A N Wright
19(3):146-153
Mar 1968
Cabbage,
Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphate, 2-, Corn, Decomposition, Insecticide residues, Potatoes.

14629-68
DETERMINATION OF FENTHION AND FIVE OF ITS METABOLITES IN CORN, GRASS, AND MILK.
M C Bowman M Beroza
J Agr Food Chem 16(3):399-402
May 1968 381 J8223
Chromatography, Corn, Fenthion, Grasses, Insecticide residues, Metabolites, Milk, Pesticide analysis.

14630-68
DETERMINATION OF ALKYL DINITROPHENYL CARBONATES AND OTHER ESTERS, WITH PARTICULAR REFERENCE TO DINOBUTON, IN FRUIT AND VEGETABLES.
R Crossley V P Lynch
19(2):57-59
Feb 1968
Crops, Insecticide residues, Pesticide analysis.

14631-68
EXCRETION OF DDT BY MIGRATORY BIRDS.
J M Harvey
Can J Zool 45(5):829-833
Sep 1967 470 C16D
Birds, Brain, Carbon isotopes, Ddt, Excreta,
Insecticide residues, Liver, Radioactive tracers, Starlings.
Abstract

14632-68
PESTICIDE RESIDUES IN FOODSTUFFS IN GREAT BRITAIN. V.
MALATHION IN IMPORTED CEREALS.
E G Bill E H Thompson
19(3):119-124
Mar 1968
Grain, Insecticide residues, Malathion.

14633-68
APPLICATION OF THE RAPID MICROMETHOD OF SAMPLE CLEANUP FOR
GAS CHROMATOGRAPHIC ANALYSIS OF COMMON ORGANIC PESTICIDES IN
GROUND WATER, SOIL, PLANT AND ANIMAL EXTRACTS.
A M Nadcon
Bull Environ Contamination Toxicol 3(2):65-70
Mar 1968 PA1270.B35A1
Animals, Chromatography, Cleanup, Groundwater,
Pesticide analysis, Pesticide residues, Plants, Soils.

14634-68
DIAZINON ABSORPTION, TRANSLOCATION, AND METABOLISM IN BEAN
PLANTS.
A S H Ranscuh T L Hopkins
J Agr Food Chem 16(3):446-450
May 1968 3E1 J8223
Beans, Carbon isotopes, Diazinon, Hydrolysis,
Insecticide residues, Metabolism, Plant translocation,
Radioisotopes.

14635-68
RESIDUES IN SPINACH GROWN IN DISULFOTON- AND PHORATE-
TREATED SOIL.
E E Menzer I F Ditman
J Econ Entomol 61(1):225-229 BEE
Feb 1968 421 J822
Chromatography, Disulfoton, Food contamination,
Insecticide residues, Pesticide analysis, Phorate,
Soil contamination, Spinach.
Abstract:
the data reported here show that disulfoton and phorate are
extremely persistent in spinach under cold-weather
conditions.

14636-68
THE PARTIAL PHOTOLYSIS OF 6-CHLOROPICOLINIC ACID IN AQUEOUS
SOLUTION.
C T Redemann C E Youngson
3(2):97-105
Mar 1968
Hydrolysis, Pesticide residues, Photochemistry.

14637-68
THE FATE OF 4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID IN SPRING
WHEAT AND SOIL.
C T Redemann R W Meikle P Hamilton V S Banks C E Youngson
3(2):80-96
Mar 1968
Amino-3,5,6-trichloropicolinic acid, 4-, Chromatography,
Herbicide residues, Metabolites, Pesticide analysis, Soils,
Synthesis, Wheat.

14638-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
4(METHYLSULFONYL)-2,6-DINITRO-N,N-DIPROPYLANILINE.
Fed Regist 33(103):7720-7721
25 May 1968 L1.451
Agricultural products, Herbicide residues, Tolerances.

14639-68
5,6-DICHLORO-1-PHENOXYCARBONYL-2-TRIFLUOROMETHYLBENZIMID-
AZOLE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE.
Fed Regist 33(104):7776
28 May 1968 L1.451
Apples, Insecticide residues, Tolerances.

14640-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 2,4-D.
Fed Regist 32(167):12473
29 Aug 1967 L1.451
D, 2,4-, Grain, Herbicide residues, Tolerances.

14641-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
2-CHLORO-4,6-BIS(ISOPROPYLAMINO)-S-TRIAZINE.
Fed Regist 33(109):8337-8338
05 Jun 1968 L1.451
Feed, Forage plants, Grain, Herbicide residues, Tolerances.

14642-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(109):8356-8357
05 Jun 1968 L1.451
Endosulfan, Insecticide residues, Lettuce, Soybeans,
Tolerances.

14643-68
SUCCINIC ACID 2,2-DIMETHYLHYDRAZIDE. NOTICE OF ESTABLISHMENT
OF TEMPORARY TOLERANCE.
Fed Regist 33(109):8357
05 Jun 1968 L1.451
Peanuts, Pesticide residues, Plant regulators, Tolerances.

14644-68
2-METHYL-2-(METHYLTHIO)PROPIONALDEHYDE O-(METHYLCARBAMOYL)-
OXIME. NOTICE OF EXTENSION OF TEMPORARY TOLERANCE.
Fed Regist 33(109):8357
05 Jun 1968 L1.451
Cottonseed, Insecticide residues, Potatoes, Temik, Tolerances.

14645-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(104):7775
28 May 1968 L1.451
Agricultural products, Herbicide residues, Tolerances.
Mixture of chemicals

14646-68
2,4-DICHLOROPHENYL P-NITROPHENYL ETHER. NOTICE OF EXTENSION
OF TEMPORARY TOLERANCES.
Fed Regist 33(104):7775
28 May 1968 L1.451
Agricultural products, Herbicide residues, Tolerances.

14647-68
2,4-DICHLOROPHENYL P-NITROPHENYL ETHER. NOTICE OF
ESTABLISHMENT OF TEMPORARY TOLERANCES.
Fed Regist 33(104):7775
28 May 1968 L1.451
Herbicide residues, Tolerances.

14648-68
2-(P-TERT-BUTYLPHENOXY) CYCLOHEXYL 2-PROPYNYL SULFITE.
NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCES.
Fed Regist 33(104):7776
28 May 1968 80 F9492
Fruits, Insecticide residues, Nuts, Tolerances.

14649-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(162):12068
22 Aug 1967 L1.451
Dimethyl S-phthalimidomethyl phosphorodithioate, O,O-,
Insecticide residues, Tolerances.

14650-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(159):11895
17 Aug 1967 L1.451
Beets, Herbicide residues, Pyrazon, Tolerances.

14651-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(66):5377
04 Apr 1968 L1.451
Dichloropropionanilide, 3,4-, Herbicide residues, Rice,
Tolerances.

14652-68
NOTICE OF AMENDMENT OF PETITION REGARDING PESTICIDES.
Fed Regist 33(102):7700
24 May 1968 L1.451
Beans, Dichlorvos, Insecticide residues, Peanuts, Rice,
Tolerances.

14653-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. EPN.
Fed Regist 33(99):7489
21 May 1968 L1.451
Epn, Insecticide residues, Soybeans, Tolerances.

55 14654-68

14654-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(99):7502
21 May 1968 L1.451
Diphenamid, Herbicide residues, Tolerances, Vegetables.

14655-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICAL.
Fed Regist 33(105):7850
29 May 1968 L1.451
Fruit, Herbicide residues, Nuts, Tolerances, Trifluralin.

14656-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(52):4593
15 Mar 1968 L1.451
Beans, Dichlorvos, Insecticide residues, Peanuts, Rice,
Tolerances.

14657-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. S-PROPYL
DIPROPYLTHIOCARBAMATE.
Fed Regist 33(49):4407
12 Mar 1968 L1.451
Herbicide residues, Peanuts, Propyl dipropylthiocarbamate, S-,
Soybeans, Sweetpotatoes, Tolerances.

14658-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
PHOSPHAMIDON.
Fed Regist 33(49):4407
12 Mar 1968 L1.451
Insecticide residues, Phosphamidon, Tolerances.

14659-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(62):5174
29 Mar 1968 L1.451
Apples, Insecticide residues, Tetrasul, Tolerances.

14660-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(62):5174
29 Mar 1968 L1.451
Diphenamid, Herbicide residues, Pesticide analysis, Potatoes,
Tolerances.

14661-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(62):5173
29 Mar 1968 L1.451
Apples, Chipman BP-11974, Cottonseed, Grapes,
Insecticide residues, Pears, Potatoes, Tolerances.

14662-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(64):5273
02 Apr 1968 L1.451
Insecticide residues, Malathion, Pesticide analysis, Sorghum,
Tolerances.

14663-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(64):5273
02 Apr 1968 L1.451
Herbicides, Pesticide analysis, Pesticide residues, Soybeans,
Tolerances.

14664-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(31):2961-2962
14 Feb 1968 L1.451
Cottonseed, Insecticide residues, Temik, Tolerances.

14665-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(29):2884
10 Feb 1968 L1.451
Agricultural products, Binapacryl, Food contamination,
Insecticide residues, Tolerances.

14666-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
O,O-DIMETHYL S-(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YLMETHYL)
PHOSPHORODITHIOATE.
Fed Regist 33(34):3111
17 Feb 1968 L1.451

Azinphosmethyl, Insecticide residues, Tolerances.

14667-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
2,2-DICHLOROVINYL DIMETHYL PHOSPHATE.
Fed Regist 33(34):3112
17 Feb 1968 L1.451
Insecticide residues, Naled, Tolerances, Tomatoes.

14668-68
FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF
ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS.
O,O-DIMETHYL S-(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YLMETHYL)
PHOSPHORODITHIOATE.
Fed Regist 33(34):3112
17 Feb 1968 L1.451
Azinphosmethyl, Cattle, Goats, Insecticide residues, Sheep,
Sugarcane, Tolerances.

14669-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(43):4116
02 Mar 1968 L1.451
Cucurbitaceae, Herbicide residues, Tolerances, Trifluralin.

14670-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(43):4116
02 Mar 1968 L1.451
Dimethyl S-phthalimidomethyl phosphorodithioate, O,O-,
Insecticide residues, Tolerances.

14671-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(43):4116
02 Mar 1968 L1.451
Fungicides, Peanuts, Pesticide residues, Tolerances,
Triphenyltin hydroxide.

14672-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(43):4116
02 Mar 1968 L1.451
Butoxy polypropylene glycol, Insecticide residues, Meat, Milk,
Tolerances.

14673-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(40):3444
28 Feb 1968 L1.451
Agricultural products,
Bis-(2,4-dichlorophenoxyethyl) phosphite, Herbicide residues,
Tolerances, Tris-(2,4-dichlorophenoxyethyl) phosphite.
Mixture of chemicals

14674-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDE
CHEMICALS.
Fed Regist 33(54):4701
19 Mar 1968 L1.451
Chloro-N-isopropylacetanilide, 2-, Herbicide residues,
Metabolites, Soybeans, Tolerances.

14675-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. O-ETHYL
S-PHENYL ETHYLPHOSPHORODITHIOATE.
Fed Regist 32(169):12604
31 Aug 1967 L1.451
Ethyl S-phenyl ethylphosphonodithioate, O-,
Insecticide residues, Tolerances.

14676-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(24):2575
03 Feb 1968 L1.451
Insecticide residues, Phorate, Potatoes, Tolerances.

14677-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(24):2575
03 Feb 1968 L1.451
Fruit, Fungicide residues, Streptomycin, Tolerances.

14678-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(24):2575
03 Feb 1968 L1.451
Diazinon, Insecticide residues, Tolerances.

14679-68
PROPOSED REDUCTION OF TOLERANCES IN OR ON RAW AGRICULTURAL COMMODITIES.
Fed Regist 33(28):2787-2788
09 Feb 1968 L1.451
Agricultural products, Ddt, Insecticide residues, Tolerances.

14680-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(162):12067
22 Aug 1967 L1.451
Difolatan, Fungicide residues, Tolerances.

14681-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(152):11448-11449
08 Aug 1967 L1.451
Fungicide residues, Maneb, Tolerances, Zineb.

14682-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(152):11448
08 Aug 1967 L1.451
Cynodon dactylon, Dinron, Herbicide residues, Tolerances.

14683-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES.
Fed Regist 32(155):11650-11651
11 Aug 1967 L1.451
Azinphosmethyl, Insecticide residues, Soybeans, Tolerances.

14684-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(159):11896
17 Aug 1967 L1.451
Beets, Herbicide residues, Propyl butylethylthiocarbamate, s-, Tolerances, Tomatoes.

14685-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(138):10615
19 Jul 1967 L1.451
Chloro-N,N-diallylacetamide, alpha-, Crops, Herbicides, Pesticide residues, Tolerances.

14686-68
NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE.
Fed Regist 32(138):10615
19 Jul 1967 L1.451
Apples, Butyl-4,6-dinitrophenyl isopropyl carbonate, 2-sec-, Dinitrobutylphenol, Insecticide residues, Metabolites, Pears, Tolerances.

14687-68
NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE.
Fed Regist 32(146):11091
29 Jul 1967 L1.451
Herbicide residues, Sugarcane, Tolerances, Trifluralin.

14688-68
DDT; ESTABLISHMENT OF PESTICIDE AND FOOD ADDITIVE TOLERANCES.
Fed Regist 32(147):11157
01 Aug 1967 L1.451
Ddt, Hops, Insecticide residues, Tolerances.

14689-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
1,1-BIS(P-CHLOROPHENYL)-2,2,2-TRICHLOROETHANOL.
Fed Regist 32(149):11263-11264
03 Aug 1967 L1.451
Dicofol, Bay, Insecticide residues, Tolerances.

14690-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(151):11389-11390
05 Aug 1967 L1.451
Atrazine, Herbicide residues, Tolerances.

14691-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(152):11449
08 Aug 1967 L1.451
Corn, Ethyl diisobutylthiocarbamate, S-, Herbicide residues, Tolerances.

14692-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(152):11449
08 Aug 1967 L1.451
Dichlorvos, Insecticide residues, Tolerances, Tomatoes.

14693-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(55):4751
20 Mar 1968 L1.451
Amino-3,5,6-trichloropicolinic acid, Herbicide residues, Tolerances.

14694-68
NOTICE OF WITHDRAWAL OF PETITIONS FOR PESTICIDE AND FOOD ADDITIVE MANEB (MANGANESE ETHYLENEBISDITHIOCARBAMATE).
Fed Regist 246(32):20669-20670
21 Dec 1967 L1.451
Feed additives, Fungicide residues, Grain, Maneb, Tolerances.

14695-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 246(32):20669
21 Dec 1967 L1.451
Dinron, Bay, Herbicide residues, Nuts, Tolerances.

14696-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 246(32):20669
21 Dec 1967 L1.451
Beets, Herbicide residues, Pyrazon, Sugar beets, Tolerances.

14697-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 246(32):20669
21 Dec 1967 L1.451
Dimethoate, Insecticide residues, Lemons, Oranges, Tolerances.

14698-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(205):14670-14671
21 Oct 1967 L1.451
Alfalfa, Cattle, Endosulfan, Insecticide residues, Tolerances.

14699-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(219):15647
10 Nov 1967 L1.451
Dodine, Fungicide residues, Peanuts, Pecans, Tolerances, Walnuts.

14700-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(219):15647
10 Nov 1967 L1.451
Gibberellic acid, Pesticide residues, Plant regulators, Tolerances.

14701-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(219):15647
10 Nov 1967 L1.451
Benzamidooxyacetic acid, Herbicide residues, Sugar beets, Tolerances.

14702-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(221):15721
15 Nov 1967 L1.451
Corn, Herbicide residues, Tolerances, Trichlorobenzyl chloride.

14703-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(223):15848
17 Nov 1967 L1.451
Insecticide residues, Mirex, Tolerances.

14704-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(223):15849
17 Nov 1967 L1.451
Fungicide residues, Metabolites, Tolerances.

14705-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(232):16507
01 Dec 1967 L1.451
Amino-3,5,6-trichloropicolinic acid, 4-, Barley, Grasses,

55 14706-68

Herbicide residues, Oats, Sugarcane, Tolerances, Wheat.

14706-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(5):306
09 Jan 1968 L1.451
Chipman BF-11974, Cottonseed, Fruit, Insecticide residues,
Potatoes, Tolerances.

14707-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(5):306
09 Jan 1968 L1.451
Herbicide residues, Tolerances, Trifluralin.

14708-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(5):307
09 Jan 1968 L1.451
Barley, Corn, Dicamba, Herbicide residues, Metabolites, Oats,
Tolerances, Wheat.

14709-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(11):598
17 Jan 1968 L1.451
Chlorobenzilate, Cottonseed, Insecticide residues, Tolerances,
Walnuts.

14710-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(11):598
17 Jan 1968 L1.451
Bananas, Fungicides, Pesticide residues,
Thiazolyl)-benzimidizole, 2-(4-, Tolerances.

14711-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(12):650
18 Jan 1968 L1.451
Celery, Insecticide residues, Methoxychlor, Potatoes.

14712-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(12):651
16 Jan 1968 L1.451
Insecticide residues,
Methyl N-((methylcarbamoyl)oxy)thioacetimidate, S-,
Tolerances.

14713-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(12):651
18 Jan 1968 L1.451
Insecticide residues, Meat, Milk,
Octylbicycloheptenedicarboximide, N-, Tolerances.

14714-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
Fed Regist 33(71):5635
11 Apr 1968 L1.451
Disulfoton, Insecticide residues, Tolerances, Wheat.

14715-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(20):1214
30 Jan 1968 L1.451
Insecticide residues, Meat, Milk, Pyrethrum, Tolerances.

14716-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(20):1214
30 Jan 1968 L1.451
Herbicide residues, Isopropyl N-(3-chlorophenyl)carbamate,
Tolerances.

14717-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(174):12868
08 Sep 1967 L1.451
Demeton, Insecticide residues, Tolerances.

14718-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(176):12961
12 Sep 1967 L1.451
Insecticide residues, Malathion.

14719-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(176):12961-12962
12 Sep 1967 L1.451
Herbicide residues, Peanuts, Potatoes,
Propyl dipropylthiocarbamate, s-, Soybeans, Tolerances.

14720-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(182):13299
20 Sep 1967 L1.451
Cottonseed, Insecticide residues, Temik, Tolerances.

14721-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(185):13424
23 Sep 1967 L1.451
Ethylamino)-4-(isopropylamino)-6-(methylthio)-s-triazine, 2-,
Herbicide residues, Tolerances.

14722-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(186):13466
26 Sep 1967 L1.451
Insecticide residues, Tolerances, Trichlorfon.

14723-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(187):13543
27 Sep 1967 L1.451
Epn, Insecticide residues, Soybeans, Tolerances.

14724-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(190):13734
30 Sep 1967 L1.451
Chloro-N-isopropylacetanilide, 2-, Herbicide residues,
Metabolites, Soybeans, Tolerances.

14725-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(206):14698
24 Oct 1967 L1.451
Ethyl dipropylthiocarbamate, S, Herbicide residues.

14726-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(207):14791
25 Oct 1967 L1.451
GS-13005, Insecticide residues, Tolerances.

14727-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 32(202):14407
18 Oct 1967 L1.451
Herbicide residues, Metohromuron, Potatoes, Tolerances.

14728-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(221):15721
15 Nov 1967 L1.451
Citrus, Fungicide residues, Maneb, Tolerances.

14729-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(232):16508
01 Dec 1967 L1.451
Azodrin, Insecticide residues, Soybeans, Tolerances.

14730-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(233):16539
02 Dec 1967 L1.451
Fungicide residues, Tetrachloroisophthalonitrile, Tolerances.

14731-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(233):16539
02 Dec 1967 L1.451
Dichlorallyl diisopropylthiocarbamate, S-2,3-,
Herbicide residues, Tolerances.

14732-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(233):16539
02 Dec 1967 L1.451
Chloro-N,N-diallylacetamide, alpha-, Herbicide residues,
Tolerances.

14733-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(5):307
09 Jan 1968 L1.451
Corn, Herbicide residues, Tolerances,
Trichlorobenzyl chloride.

14734-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(5):306-307
09 Jan 1968 L1.451
Dichloropropionanilide, 3:,4:, Herbicide residues, Rice,
Tolerances.

14735-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(75):5896
17 Apr 1968 L1.451
Bromophenyl)-N:-methyl-N:-methoxyurea, N-(p-,
Herbicide residues, Potatoes, Tolerances.

14736-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(79):6190
23 Apr 1968 L1.451
Benzamidoxyacetic acid, Herbicide residues, Sugar beets.

14737-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 33(2):84
04 Jan 1968 L1.451
Cotton, Cottonseed, Defoliants, Endothal, Herbicide residues,
Tolerances.

14738-68
PROPOSED REDUCTION IN TOLERANCE IN OR ON BANANAS.
Fed Regist 33(85):6860-6861
07 May 1968 L1.451
Bananas, Diuron, Herbicide residues, Nuts, Tolerances.

14739-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. N-BUTYL-
N-ETHYL-ALPHA,ALPHA,ALPHA-TRIFLUORO-2,6-DINITRO-P-TOLUIDINE.
Fed Regist 32(192):13807
04 Oct 1967 L1.451
Alfalfa, Birdsfoot trefoil,
Butyl-N-ethyl-alpha-trifluoro-2,6-dinitro-p-toluidine, N-,
Clover, Herbicide residues, Peanuts, Tolerances.

14740-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(185):13423-13424
23 Sep 1967 L1.451
Chloro-2-nitropropane, 1-, Fungicide residues, Tolerances.

14741-68
NOTICE OF WITHDRAWAL OF PETITIONS FOR PESTICIDE CHEMICAL AND
FOOD ADDITIVE NICKEL SULFATE.
Fed Regist 32(202):14407
18 Oct 1967 L1.451
Fungicide residues, Nickel sulfate, Tolerances.

14742-68
NOTICE OF WITHDRAWAL OF PETITIONS FOR PESTICIDE CHEMICAL AND
FOOD ADDITIVE.
Fed Regist 33(86):6753
02 May 1968 L1.451
Azinphosethyl, Cottonseed, Food additives,
Insecticide residues, Potatoes, Soybeans, Tolerances.

14743-68
NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVES.
Fed Regist 33(71):5835
11 Apr 1968 L1.451
Azinphosmethyl, Food additives, Insecticide residues,
Soybean oil, Tolerances.

14744-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDES.
Fed Regist 33(12):851
18 Jan 1968 L1.451
D, 2,4-, Herbicide residues, Tolerances.

14745-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. N-BUTYL-
N-ETHYL-ALPHA,ALPHA,ALPHA-TRIFLUORO-2,6-DINITRO-P-TOLUIDINE.
Fed Regist 32(235):17472
06 Dec 1967 L1.451
Alfalfa, Birdsfoot trefoil,
Butyl-N-ethyl-alpha-trifluoro-2,6-dinitro-p-toluidine, N-,
Clover, Herbicide residues, Lettuce, Peanuts, Tolerances.

14746-68
CIS-2,3,5,5,5-PENTACHLORO-4-KETOPENTENOIC ACID; NOTICE OF
ESTABLISHMENT OF TEMPORARY TOLERANCE.
Fed Regist 32(179):13148
15 Sep 1967 L1.451
Cottonseed, Defoliants,
Pentachloro-4-ketopentenoic acid, cis-2,3,5,5,5-,
Pesticide residues, Tolerances.

14747-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES.
Fed Regist 33(71):5835
11 Apr 1968 L1.451
Cattle, Dimethoate, Feed, Food additives,
Insecticide residues, Tolerances.

14748-68
NOTICE OF FILING OF PESTICIDE AND FOOD ADDITIVE PETITIONS.
Fed Regist 32(223):15849
17 Nov 1967 L1.451
Azinphosethyl, Cottonseed, Insecticide residues, Potatoes,
Soybeans, Tolerances.

14749-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICAL.
Fed Regist 33(89):6890
07 May 1968 L1.451
Herbicide residues, Sugarcane, Tolerances, Trifluralin.

14750-68
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
Fed Regist 32(203):14568-14569
19 Oct 1967 L1.451
Insecticide residues, Potatoes, Temik, Tolerances.

14751-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
2-CHLORO-N-ISOPROPYLACETANILIDE.
Fed Regist 32(210):14944
28 Oct 1967 L1.451
Chloro-N-isopropylacetanilide, 2-, Corn, Herbicide residues,
Sorghum, Tolerances.

14752-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. O,O-
DIETHYL S-2-(ETHYLTHIO)ETHYL PHOSPHORODITHIOATE.
Fed Regist 32(193):13863
05 Oct 1967 L1.451
Coffee, Corn, Demeton, Disulfoton, Insecticide residues,
Sugarcane, Tolerances.

14753-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE
CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES.
O,O-DIETHYL O-(2-ISOPROPYL-4-METHYL-6-PYRIMIDINYL)
PHOSPHOROTHIOATE.
Fed Regist 32(233):16529
02 Dec 1967 L1.451
Diazinon, Insecticide residues, Tolerances.

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14754-68
INTERACTION OF DDT AND THE GASTROINTESTINAL MICROFLORA OF THE RAT.
E C Fraunberg V Beck
J Agr Food Chem 16(3):451-453
May 1968 3E1 J8223
Bacteria, DDT, Feces, Gastrointestinal system, Metabolites, Rats.

14755-68
POISONING GULLS WITH ALPHA-CHLORALOSE NEAR A NEW ZEALAND AIRFIELD.
T A Caithness
J Wildlife Manage 32(2):279-286
Apr 1968 410 J827
Aircraft, Bird control, Chlcralcse, Gulls.

14756-68
NARCOTIC AND TOXIC ACTION OF ORGANIC COMPOUNDS ON BARNACLE LARVAE.
D J Crisp A C Christie A E A Ghobashy
Compar Biochem Physiol 22(3):629-649 REF
Sep 1967 444.8 C73
Barnacles, Narcotics, Organic compounds, Toxicity.
Abstract

14757-68
TEMIK-S35 METABOLISM IN A LACTATING COW.
W B Dorough G W Ivie
J Agr Food Chem 16(3):460-464
May 1968 3E1 J8223
Cattle, Feces, Metabolites, Milk, Temik, Urine.

14758-66
SECONDARY POISONING ASSOCIATED WITH ANTICOAGULANT-KILLED NUTRIA.
J Evans A I Ward
Amer Vet Med Ass J 151(7):856-861 REF
01 Oct 1967 41.8 AM3
Anticoagulants, Dogs, Meat, Minks, Nutria, Poisoning.
Abstract: Secondary poisoning resulted when meat from anticoagulant-killed nutria was fed to commercial mink and mongrel dogs. This occurred with both the coumarin and indandione anticoagulants; the coumarin group was represented by 3-(1'-(p-chlorphenyl)-propyl)-4-oxycoumarin, and a warfarin and sulfaguinoxaline preparation. The indandione group by diphacinone, pindone, and 2-isovaleryl-1,3-indandione calcium salt. Mink and dogs died directly from eating the meat, and a mink and 2 dogs died from hemorrhage when blood samples were taken. Bioassay showed that the poison accumulated in the livers of nutria killed with the oxycoumarin. The demand for nutria as mink and pet food rules out use of these rodenticides for nutria control.

14759-68
SELECTIVE SYNERGISM OF CARBAMATE INSECTICIDES ON HOUSEFLIES BY ARYLOXYALKYLAMINES.
M A Fahmy E T Gordon
J Econ Entomol 58(3):451-455, BIBL. 455, TABS.
Jun 1965 421 J822
Aryloxyalkylamines, Carbamates, Insecticide synergists, Musca domestica.

14760-68
ASPIRIN POISONING IN THE CAT.
J D Berrgessell
Amer Vet Med Ass J 151(4):452-455 REF
15 Aug 1967 41.8 AM3
Acetylsalicylic acid, Cats, Gastritis, Hepatitis, Poisoning.
Abstract: A clinical case of aspirin poisoning in the cat is described; the outstanding clinical signs being hyperpnea, hyperpyrexia, depression, and death. This syndrome was experimentally induced in 3 cats, at doses of 5 gr. b.i.d. Pathologic lesions of toxic hepatitis and gastritis were found in all 4 cats.

14761-68
AN ATTEMPT TO PRODUCE CHRONIC NITRITE TOXICOSIS IN SWINE.
W T London W Henderson R F Cross
Amer Vet Med Ass J 150(4):398-402 REF
15 Feb 1967 41.8 AM3
Blood analysis, Methemoglobinemia, Nitrites, Poisoning, Potassium nitrite, Swine.
Abstract: Potassium nitrite was administered orally to pigs to determine the toxic and lethal levels and to measure the methemoglobin response, and other pigs were given sublethal levels to determine the effects of prolonged intake. Pigs given single oral dose ranging from 12.2 to 19.8 mg. per kilogram of body weight developed clinical methemoglobinemia. Pigs given 21.3 mg./kg. or more died. Death occurred when the methemoglobin level reached 76 to 82 percent. Prolonged sublethal intake had little effect on average daily gain or feed conversion. Hemoglobin, packed cell volumes, and total lenkocyte counts gradually increased. Serum vitamin A and E levels became lower, but neither clinical signs nor lesions were produced. Growing pigs can tolerate high levels of nitrite over a long period without serious effects.

14762-68
THE SAFE USE OF PESTICIDES.
L Lykken
Agr Chem 22(9):35-36
Sep 1967 381 AG8
Accident prevention, Pesticides, Poisoning.

14763-68
THE INFLUENCE OF DIET ON TOXICITY OF THE ANTIOXIDANT 1,2-DIHYDRO-6-ETHOXY-2,2,4-TRIMETHYLQUINOLINE.
R E March J Riely V Coates
Can J Physiol Pharmacol 46(2):145-149 REF
Mar 1968 444.8 C16
Antioxidants, Chicks, Diet,
Ethoxy-1,2-dihydro-2,2,4-trimethylquinoline, 6-,
Feed additives, Proteins.
English and french abstracts
Abstract: Toxicity to chicks of 1,2-dihydro-6-ethoxy-2,-2,4-trimethylquinoline (EQ) was significantly greater when the diet was low in protein. When fat supplementation of the diet enhanced EQ toxicity the effect appeared to result from an increase in the energy: protein ratio of the diet rather than from the fat itself. The concentration of EQ in the livers of chicks fed 0.25 percent EQ for 6 weeks was significantly higher when the dietary level of protein was 17 percent than when the level was 23 percent.

14764-68
FLUOROSIS IN A HERD OF CATTLE IN KENYA.
M Murray
Bull Epizoot Dis Afr 15(3):259-262
Sep 1967 41.8 B872
Cattle, Fluorosis, Poisoning.

14765-68
ETHYLENE GLYCOL POISONING IN POULTRY.
C Riddell S W Nielsen E J Kersting
Amer Vet Med Ass J 150(12):1531-1535 REF
15 Jun 1967 41.8 AM3
Calcium oxalate, Chickens, Ethylene glycol, Geese, Poisoning.
Abstract: A field case of suspected ethylene glycol poisoning in geese is described in which the principal lesions were calcium oxalate crystals in renal tubules and walls of cerebral vessels. Chickens were experimentally exposed to EG in drinking water. All birds given 25.0 ml./L. or more had renal oxalosis. Birds on continuous lower levels for 2 weeks were not affected clinically, but some had calcium oxalate crystals in the renal tubules.

14766-68
CHEMOSTERILANT PROPERTIES, CYTOTOXICITY, AND MAMMALIAN TOXICITY OF APROLATE AND OTHER P-N RING CHEMICALS.
S S Ristich R H Ratcliffe D Perlman
J Econ Entomol 58(5):929-932
Oct 1965 421 JR22
Apholate, Chemosterilants, Mammals, Mice, Musca domestica, Toxicity.

14767-68
CHLORDANE AS A POSSIBLE TOXIC HAZARD IN BEEKEEPING.
W A Stephen E Rodgson
J Econ Entomol 55(3):409
Jun 1962 421 J822
Apiculture, Bees, Beeswax, Chlordane, Toxicology.

14768-68
FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. OXYTETRACYCLINE, CARBOMYCIN.
Fed Regist 33(2):73
04 Jan 1968 L1.451
Carbomycin, Chickens, Food additives, Oxytetracycline, Respiratory diseases, Tolerances.

14769-68
TEMPORARY ADSORPTION ON A SUBSTRATE OF AN OIL-SPILL REMOVER (DETERGENT); TESTS WITH LARVAE OF SABELLARIA SPINULOSA.
D F Wilson
Mar Biol Ass Uk J 48(1):183-186
Feb 1968 442.S M331
Aquatic animals, Detergents, Larvae, Toxins.

14770-68
PROPERTIES OF TOXIC FESCUE EXTRACTS. (ABSTRACT).
S J Yau D E Jacobson
J Dairy Sci 51(4):625
Apr 1968 44.8 J822
Acids, Animal physiology, Chromatography, Festuca, Poisonous plants, Rats.
Abstract of paper presented at the American Dairy Science Association Southern Division annual meeting, Louisville, Feb. 5-7, 1968

65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

14771-68
THE EFFECT OF WILTING ON REDOX POTENTIAL OF CEREAL LEAVES.
J Benada
Biol Plant 9(6):447-453
1967 450 B52
Fungus diseases (plants), Grain, Leaves, Oxidation-reduction potential, Plant disease resistance, Plant water relations.
Abstract: The redox potential of wilted leaves of cereal seedlings grown in a greenhouse was higher than in fresh leaves. The cause of the change redox potential is discussed in connection with the ontogeny of cereals and resistance against obligate parasites.

14772-68
PRODUCTION OF AFLATOXINS B1 AND G1 IN CHEMICALLY DEFINED MEDIUM.
N D Davis U L Diener V P Agnihotri
Mycopathol Mycol Appl 31(3-4):251-256
28 Apr 1967 450 M994
Aflatoxin, Aspergillus flavus, Culture media.

14773-68
METHOD OF CONTROLLING PLANT GROWTH. PATENT 3,375,096.
T A Girard
Us Patent Office Offic Gaz 848(4):1022
26 Mar 1968 156.65 OF2
Chlorinated hydrocarbons, Patents, Plant growth inhibitors.

14774-68
DEPENDENCE OF LONGITUDINAL GROWTH OF THE HYPOCOTYLS OF LACTUCA SATIVA L. ON THE LEVEL OF EXOGENOUS GIBBERELLIN GA3 AND ON THE TYPE OF ILLUMINATION.
J Hradilik
Biol Plant 9(5):368-371
1967 450 B52
Fluorescent lamps, Gibberellic acid, Lettuce, Light, Plant physiology.

14775-68
EFFECTS OF DIRECT CONTACT OF PINE SEEDS OR YOUNG SEEDLINGS WITH COMMERCIAL FORMULATIONS, ACTIVE INGREDIENTS, OR INERT INGREDIENTS OF TRIAZINE HERBICIDES.
T T Kozlowski S Sasaki
Can J Plant Sci 48(1):1-7 REF
Jan 1968 450 C16
Atrazine, Herbicides, Pinus resinosa, Propazine, Seedlings, Seeds, Simazine, Tree injuries, Triazines.
Abstract

14776-68
THE GROWTH OF VARIOUS FILAMENTOUS FUNGI AND YEASTS ON N-ALKANES AND KETONES. I. STUDIES ON SUBSTRATE SPECIFICITY.
C E Lowery J W Foster P Jurtshuk
Arch Mikrobiol 60(3):246-254 REF
09 Jan 1968 442.8 AR26
Culture media, Fungi, Ketones, Paraffins, Plant physiology.
Abstract: Ninety-five fungi were tested for their ability to grow on liquid mineral media containg n-alkanes as sole source of carbon. Of 29 filamentous fungi tested, 18 were capable of growing on n-alkanes. Of 66 yeasts only 11 exhibited this ability, predominantly Candida, Rhodotorula and Debaryomyces. Of the hydrocarbon utilizing filamentous fungi and yeasts, almost all were capable of growing on n-alkanes having a chain length of 10 carbon atoms or more . Only a few of the filamentous fungi to grew on the short chain n-alkanes. Of the 8 hydrocarbon utilizing yeasts examined, only 5 grew on a few ketones.

14777-68
METHOD FOR REGULATING PLANT GROWTH. PATENT 3,376,126.
W C McConnell R W Rahn
Us Patent Office Offic Gaz 849(1):165
02 Apr 1968 156.65 OF2
Fertilizers, Patents, Plant regulators, Plants, Potassium azide, Soil bacteria, Soil microorganisms, Soil sanitation.

65 14778-68

14778-68
EFFECT OF ADDITIONAL FACTORS ON MYCELIAL GROWTH AND SPORULATION OF CANADIAN ISOLATES OF ASCOCHYTA IMPERFECTA PECK.
B W Mead
Phytopathology 52(1):21
Jan 1962 464.8 P56
Alfalfa, Ascochyta imperfecta, Culture media, Fungi, Plant nutrition, Spore germination.

14779-68
DEFOLIATION OF PLANTS. PATENT 3,378,364.
P L Menville E E Carroll
Us Patent Office Offic Gaz 849(3):768
16 Apr 1968 156.65 OP2
Arsenic compounds, Cotton, Defoliation, Patents, Soybeans.

14780-68
A MODIFIED BEAN ROOT INITIATION TEST FOR AUXINS AND INHIBITORS.
E A Feagst A E Durkee S H Nelson
Can J Plant Sci 47(3):263-266 BEF
May 1967 450 C16
Beans, Biological assay, Plant growth inhibitors, Plant regulators, Tissues.
Abstract: Removal of tissues above the cotyledonary node from leafy stem cuttings of beans, after imbibition and prior to potting in root initiation tests, increased the sensitivity to growth inhibitors, and reduced the variation in control plants. Response to auxin increased slightly to small amounts and declined for larger amounts.

14781-68
EFFECT OF ENVIRONMENTAL CONDITIONS ON SCLEROTIA AND CLEISTOTHECIA PRODUCTION IN ASPERGILLUS.
J N Bai J P Tewari A K Sinha
Mycopathol Mycol Appl 31(3-4):209-224 BEF
28 Apr 1967 450 M994
Aspergillus, Culture media, Environment, Plant physiology.
Abstract: Observations on the effect of certain environmental conditions viz. pH, light, temperature of incubation, oxygen-deficient conditions and various relative humidity values on sclerotia production by Aspergillus have been presented.

14782-68
CONTRIBUTION TO THE QUESTION OF DIRECT INFLUENCE OF ALPHA-NAPHTHALENEACETIC ACID ON INITIATION OF FRUIT BUDS ON APPLE TREES.
J Sahulka
Biol Plant 9(5):392-393
1967 450 B52
Apples, Naphthaleneacetic acid, Plant regulators, Thinning (fruit).

14783-68
THE PHYSIOLOGICAL ROLE OF BORON IN PLANTS. (RUS)
M J Shkol'nik
Bot Zhur (moscow) 52(2):259-275 BEF
Feb 1967 451 B923
Boron, Plant physiology.

14784-68
PAPER CHROMATOGRAPHIC ANALYSIS BY A NEW TEST METHOD OF BACTERICIDAL SUBSTANCES IN PLANT EXTRACTS AND POSSIBLE RELATIONS OF THESE SUBSTANCES TO PLANT GROWTH INHIBITORS. (GE)
B Soding K Dorffling
Arch Mikrobiol 60(2):182-200 BEF
1968 442.8 A626
Acer pseudoplatanus, Bactericides, Chromatography, Peas, Plant extracts, Plant growth inhibitors, Sunflowers.
English and german abstracts
Abstract: Chromatogram segments are inoculated with microbes, kept in a moist chamber for 1 day and then placed on agar medium. Growth of bacteria is stopped or retarded in the presence of bactericides. If Serratia marcescens is used as test organism, a retardation or missing of pink coloration is observed too. Ether extracts from buds of Acer pseudoplatanus, shoots of peas and sunflowers were chromatographed in isopropanol/water/ammonia 80:15:5 and were tested by with Serratia marcescens, Pseudomonas fluorescens and Aerobacter aerogenes. All contain bactericidal substances. Chromatograms contained substances inhibiting growth of Avena and germination of Lepidium. Synthetic D,L-abscisin II showed no bactericidal activity. Therefore, bactericidal substance in sycamore and pea cannot be identical with the growth and germination inhibitor at the same position.

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14785-68
GAS CHROMATOGRAPHIC DETERMINATION OF DIETHYL FUMARATE IN MALATHION EXTRACTS AND PREPARATIONS USED FOR CONTROL OF BODY LICE.
P Acree B B Turner M Beroza
J Econ Entomol 61(2):457-459
Apr 1968 421 J822
Chromatography, Diethyl fumarate, Electron capture, Malathion, Pediculus humanus humanus.
Abstract

14786-68
POTENTIOMETRIC DETERMINATION OF PHOSPHINE.
B Berck
J Agr Food Chem 16(3):415-418
May 1968 381 J8223
Fumigants, Pesticide analysis, Phosphine, Potentiometry.

14787-68
SEPARATION OF AFLATOXIN ON SELECTIVELY DEACTIVATED SILICIC ACID.
E V Crisan E Mazzucca
Boyce Thompson Inst Contrib 23(11):361-365
Jul 1967 451 B69
Aflatoxin, Aspergillus flavus, Chromatography, Plant extracts, Silicic acid.
Abstract: Activated silicAR, Mallinckrodt type CC-4, permitted recovery of 87 percent of the aflatoxin B1 contained in a crude extract. Methods of purifying the remaining aflatoxin G are also described.

14788-68
THE DETERMINATION OF PHOSPHORUS DISTRIBUTION BY THIN LAYER CHROMATOGRAPHY. (GE)
B Petschik E Steger
J Chromatography 31(2):369-374 BEF
Dec 1967 475 J824
Chromatography, Organophosphorus compounds.
English and german abstracts.
Abstract: The distribution of phosphorus on thin-layer chromatograms can be determined, although the recovery of phosphorus from undissolved layer material after mineralisation of organophosphorus compounds is incomplete. With test mixtures of aliphatic phosphorus thioesters distribution values with a standard deviation of 1.2 percent (abs.) were found. Mineralisation was accomplished with a mixture of periodic and perchloric acid. Phosphorus was determined by the vanadate method.

14789-68
PREPARATION OF THE PHOTOISOMERS OF ALDRIN AND DIELDRIN.
J D Rosen W P Carey
J Agr Food Chem 16(3):536-537
May 1968 381 J8223
Aldrin, Dieldrin, Isomers, Photochemistry.

80 ENGINEERING

14790-68
CARE AND MAINTENANCE OF THE ONE-GALLON STAINLESS STEEL SPRAYER.
W L Brehm
Pest Contr 36(5):16,18,20
May 1968 449.8 EX8
Accident prevention, Insecticides, Maintenance, Pest control operators, Spraying equipment.

14791-68
A TEMPERATURE CONTROLLED SHAKER FOR MICROBIAL CULTURES.
E V Crisan
Boyce Thompson Inst Contrib 23(11):379-380
Jul 1967 451 B69
Culture media, Equipment, Fungi, Microbiology, Temperature.

14792-68
INFLUENCE OF NEAR-ULTRAVIOLET OUTPUT OF ATTRACTANT LAMPS ON CATCHES OF INSECTS BY LIGHT TRAPS.
J P Bellinger-Worth A W Hartstack O A Lindquist
J Econ Entomol 61(2):515-521
Apr 1968 421 J822
Attractants, Helicthis zea, Insect collecting equipment, Light traps, Trichoplusia ni, Ultraviolet rays.
Abstract

14793-68
A LIGHT-WEIGHT CAGE TO CONFINE SMALL INSECT PREDATORS WITH THEIR PREY ON THE HOST PLANT.
B I Hargrave D Asquith
J Econ Entomol 61(2):572-573
Apr 1968 421 J822
Food plants, Insect cages, Predaceous insects.

14794-68
EQUIPMENT AND EQUIPMENT ANALYSIS FOR ARTHROPOD CONTROL.
E A Ehlen
Fla Anti-Mosquito Ass Rep 38:64-67
07 May 1967 420 F663
Arthropods, Equipment, Insect control.

14795-68
DISTRIBUTION OF RELEASED JAPANESE BEETLES IN A GRID OF TRAPS.
P B Schwartz
J Econ Entomol 61(2):423-426
Apr 1968 421 J822
Insect dissemination, Insect traps, Popillia japonica.
Abstract

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14796-68
PESTICIDE CHEMICALS, THE MAGIC OF MODERN FARMING.
P C Brinkley
Nat Agr Chem Ass News Pesticide Rev 26(4):3-4
Apr 1968 421 AG8
Agricultural research, Pesticides.

14797-68
WHERE DO WE STAND NOW?.
L A Dowler
Aerial Appl 6(4):6-7
Apr 1968 333.8 AE8
Aerial spraying, Aircraft, Pest control operators, Pesticide application, Prices.

14798-68
RESEARCH ON PESTS AND THEIR CONTROL.
W C Shaw
Nat Agr Chem Ass News Pesticide Rev 26(4):5
Apr 1968 421 AG8
Pest control.

Education

14799-68
PESTICIDES HANDBOOK PUBLISHED BY USDA.
Anonymous
Aerial Appl 5(5):8
May 1967 333.8 AE8
Handbooks, Pesticide application, Pesticides, Safety education, Storage.

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Modes of action of 3-amino-1,2,4-triazole: current status. in: Isotopes in weed research; proceedings of a symposium, vienna, 25-29 October 1965 S589.S9. 14470

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